

# ESALE COLLEGE

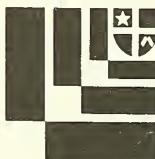
BULLETIN  
1974-1975

A LIBERAL ARTS COLLEGE FOR MEN AND WOMEN



LA SALLE COLLEGE

# **BSAILE COLLEGE**



## **BULLETIN 1974-1975**

CATALOG ISSUE  
A LIBERAL ARTS COLLEGE  
FOR MEN AND WOMEN  
CONDUCTED BY  
BROTHERS OF THE CHRISTIAN SCHOOLS  
PHILADELPHIA, PENNSYLVANIA

## **ACCREDITATION AND MEMBERSHIP**

La Salle College was chartered in 1863 by the Legislature of the Commonwealth of Pennsylvania and is empowered by that authority to grant academic degrees. It is accredited with the Middle States Association of Colleges and Secondary Schools, the Pennsylvania Department of Education, the Regents of the University of the State of New York, the American Chemical Society, and the Pennsylvania State Board of Law Examiners.

The College is a member of the American Council on Education, the Association of American Colleges, the College Entrance Examination Board, the American Association of Collegiate Registrars and Admissions Officers, the Association of College Admissions Counselors, the National Catholic Educational Association, the College and University Council of Pennsylvania, the Association of Liberal Arts Colleges of Pennsylvania for the Advancement of Teaching, the Pennsylvania Catholic Education Association, the American Library Association, the National Commission on Accrediting, the American Catholic Historical Society, the Educational Conference of the Brothers of the Christian Schools, and the National Association for Foreign Student Affairs.

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# A Profile of La Salle

## The History

La Salle College was chartered by the legislature of the Commonwealth of Pennsylvania in 1863. The founders of the new educational institution consisted of Christian Brothers, priests of the Archdiocese of Philadelphia, and several Catholic laymen. The College's beginnings were modest indeed: at first it was an adjunct to St. Michael's parish school. As the small college began to establish its educational reputation, its need for space dictated several moves. From St. Michael's the College moved to a center city site at Juniper and Filbert Sts. and from there to the old Bouvier mansion at 1240 North Broad St.

Forty-three years later, in 1929, the still expanding college purchased part of the historic Belfield Farm, once the home of American painter Charles Willson Peale, and began to build the collegiate Gothic towers of College Hall. La Salle was hardly settled in its new home before the Great Depression threatened its very survival. The lean years of the 1930's became even more difficult when World War II depleted the student population to a mere 90 students.

With the end of the war, however, the influx of veterans taking advantage of the G.I. Bill necessitated a new cycle of growth and expansion that has continued until the present day.

Two decisions stand out as noteworthy in this period of change. The first is the inauguration of the Evening Division in 1946 and that division's subsequent development as a leader in the state in providing evening degree programs for adults. The second is the decision to admit women students, thus ending a century old tradition and beginning a new chapter in La Salle's history. Women entered evening classes in 1967 and day classes in 1970. Of the entering class of 1973, 27% were women.

The tremendous expansion of La Salle to its present 3000 day students is apparent in the building boom that has taken place on campus. Additions over the last 25 years have included the David Lawrence Library and the newly-completed Library Annex in Wister Hall; a College Union; nine residence halls, the Holyroyd Science Center; a biological field station; Olney Hall, a new classroom and faculty office building; and Hayman Hall, the athletic facilities building completed in 1972.

This remarkable physical growth has been complemented by an equally remarkable academic development. Studies show a continuing improvement in the credentials of each entering class. Recent years have seen more graduates pursuing higher degrees and winning prestige scholarships. Curriculum study has not stood still, and today's curriculum is more varied, more flexible, more responsive to the needs and interests of students. Among the many special programs are those for honors students, for study abroad, for cooperative education, and for disadvantaged students.



## The Campus

For a city college, La Salle's campus is surprising. Tucked behind the brick facades on Olney Avenue is a pleasantly green and peaceful tract of about forty acres. Though buses stop at the door and the subway is only a few blocks away, the campus benefits from some of the country-like aspects of its site. Across 20th Street is historic Belfield, one of the few farms within the city limits. South of the campus lies Wister Woods, now a part of Fairmount Park. The result of these happy accidents of locale is that the campus retains a somewhat suburban atmosphere while losing none of the advantages of being an urban college.

In Philadelphia, these advantages are both educational and cultural. The city has a noteworthy group of educational institutions, with a variety of specialized libraries. Its orchestra and museums are internationally famous. Most of the city's cultural and historical resources are within convenient commuting distance from the campus.

Architecturally, the buildings on campus reflect the history of the College's growth, ranging from the traditional collegiate Gothic to the modern.

In addition to the classroom buildings (College, Wister, Holroyd, and Olney Halls) and the residence halls, the campus has the David L. Lawrence Memorial Library, the College Union, and the Hayman Hall athletic facilities.

Over 200,000 volumes are housed in the air conditioned Lawrence Library and its Wister Hall Annex, along with reading rooms and files of some 700 periodicals. The College Union is a center of student activities, containing dining rooms, lounges, a theatre, and activities offices. The newly completed Hayman Hall features a swimming pool and diving well, basketball and squash courts, an indoor track, a sauna bath, and other athletic facilities.

# The People

More than buildings, more than books, more than lectures and examinations, education is a matter of people. It is the people who make up La Salle—the students and the teachers—who give the College its character. You may well ask, "What are they like, these people with whom I may spend my next four years?"

Most of the students come from the northeastern states, but there are representatives from 21 states and 14 foreign countries. Studies of student characteristics reveal that 75% of the students will probably pursue graduate or professional studies. A majority of them selected "to broaden intellectual interests" when asked to identify their goal in coming to college. Such interest promotes a common bond between majors in a particular subject that often ripens into permanent friendships that are continued in alumni professional groups.

Your teachers at La Salle are Christian Brothers, priests, and lay professors. All of them share the same goal: to be of as much help to you, the student, as they can be. St. La Salle's dedication to teaching is the informing spirit of the College, and you will be conscious of this spirit in the willingness of your professors to give that extra moment of explanation or advice which can mean so much. While many of these men and women are engaged in their own scholarship or research, their primary focus is always the classroom and their basic obligation is to you, the student.

Making the transition between high school and college is never easy, but at La Salle you will find many people who want to help and who understand some of the problems you face perhaps better than you do yourself.

During the summer months preceding the start of classes you and your parents will be invited to participate in the Pre-College Counseling Program. At this time you will come to the campus for a full day of conferences with the Counseling Center staff, as well as representatives from Financial Aid, Housing, Placement and other areas of the College. During the program you will have a personal interview with a counselor to discuss your educational and career plans and will



meet with an academic adviser who will assist you with your fall roster. In an informal atmosphere of small group discussions, you will also have the opportunity of sharing your ideas with other freshmen, with upperclassmen who have experienced the same transition, and with faculty members and administrators anxious to be of help. The overall aim of the summer program is to make your adjustment to college life as pleasant as possible.

In addition to this initial counseling program, the Counseling Center offers continued diagnostic and counseling services throughout your college years. If you are uncertain of your major or of your vocational plans, the staff is happy to assist you in making a sound choice based on your own interests and capabilities. The Center also offers personal counseling and psychiatric consultation, as well as informational services about graduate and professional schools, drugs, selective service and a variety of occupations.

Nor is your physical well-being neglected while you are on campus. A College physician is always on call, and a registered nurse is in daily attendance in the dispensary. Medical insurance is available and recommended to all students.

Throughout your college days, the Director of the Career Planning and Placement Bureau will be at your service to help you select a career and assist you in planning job campaigns. This office is sometimes able to assist students in finding part time or summer jobs related to their career goals.

All in all, you will find the human side at La Salle an important part of your education. Long after you have forgotten painfully memorized facts from a textbook or lecture, you will remember the teachers and students with whom you associated in your college years.





## The Academic Life

"The only privilege a student had that was worth his claiming," wrote Henry Adams, "was that of talking to the professor, and the professor was bound to encourage it." La Salle professors do encourage it, and classes are small enough to permit discussion and personal relationships with your teachers.

The result is an academic environment where learning and intellectual development are nourished. In more concrete terms, the result is the gratifyingly high number of prestige awards won by La Salle graduates.

The presence at La Salle of good teachers, a fine library, and uncrowded classes are all helpful to your academic success, but the actual achievement of your academic goals is ultimately up to you.

The most important adjustment to collegiate life you will have to make is in learning to budget your time wisely. No one will force you to learn; no one can. Instead, you will be treated as a mature, intelligent person. You will be given assigned readings, papers, and projects in research to be turned in by a certain date. You yourself must plan when these assignments will be done; you yourself must bear the responsibility for meeting standards set by your instructors.

The standards for academic achievement are treated in some detail in the reference section of this catalog and need not be discussed here. The important thing for you to realize about the academic side of your college life is that it is the central test of your maturity and sense of responsibility. Learning is sometimes hard work, but it is the most rewarding kind of effort, not only in grades but in the self-satisfaction of having met a difficult challenge successfully.

But the academic side of college is not just a bleak picture of challenges, responsibilities, and standards. The academic side really offers one of the deepest, most lasting joys a person can experience—the joy of understanding.

Suddenly some part of human experience fits into a pattern for you; suddenly you understand why. The best part of the joy of understanding is that it is endless. The deeper your understanding goes, the deeper the satisfaction you experience.

Perhaps you haven't yet discovered this kind of joy; you may even doubt that it exists. Yet when you first experience it, you will begin to understand what education is all about and why many people willingly devote their lives to study and research.



## The Social Life

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The social side of college life should be a vital part of your educational experience. In living with others, planning activities together, and sharing your ideas in hours of informal discussion you are learning much that is a desirable part of liberal education. You are learning to understand and respect differing points of view; you are learning to discover new relationships and to develop your own convictions.

An important part of college, therefore, is the opportunity to share your concerns, to test your thinking in conversations and meetings with your peers, other men and women of your age who are trying to discover themselves just as you are.

Though this kind of informal relationship with other students has deep and permanent effects and cannot by its nature be planned or organized, it is often nurtured by common interests in organized activities. A lecture, for example, by a visiting celebrity from the world of politics or literature may kindle student discussions in the Snack Bar or the residence halls. Such concerts and lectures are weekly occurrences at La Salle.

Athletics too may develop common interests among students, whether they are participants or spectators. The athletic program encourages both intramural and intercollegiate competition. Varsity teams from La Salle have often been leaders in basketball, baseball, swimming, track, cross-country, crew, soccer, golf, and tennis. Varsity teams for women now include basketball, field hockey, and softball.

La Salle's reputation for excellence in drama rests on the work of The Masque and Theatre La Salle, who collaborate on two productions during the school year, and on the widely acclaimed Music Theatre productions which regularly draw more than 20,000 people to the campus each summer.

# The Philosophy and Objectives

La Salle College is a group of buildings—brick, marble, limestone—situated on a hill overlooking Wister Woods. But it is also a great deal more. It is the embodiment of two great educational traditions: the American tradition of educating men in the foundations and spirit of democracy and the roots of western civilization, and the La Sallian tradition of dedicated teaching and concern for the individual, dating back to St. John Baptist de La Salle, founder of the Christian Brothers.

In the light of these traditions, La Salle offers students an education founded on the idea that man's intellectual and spiritual development go hand in hand, complementing and fulfilling one another. The basic purpose of the College is a free search for truth and the development of materials and skills necessary for the search; its religious concern is an extension of that purpose. In a company of mature teachers and scholars, the College urges the student to confront the ultimate questions of human experience: who he is; where his destiny lies; how he is to reach it.

La Salle is committed to a liberal education of both general and specialized studies. It wants its students to liberate themselves from narrow interests and prejudices and to learn to observe reality with precision, judge events and opinions critically, think logically, communicate effectively, and sharpen esthetic perception. The curriculum involves a body of knowledge about the universe; about man—his nature, behavior, and values; about God. It also provides an opportunity to gain specialized knowledge in one field of learning as a preparation for graduate study or entry into professional life. Beyond this breadth and depth of knowledge, the College encourages its students to seek wisdom, that is, to grasp those basic principles which can give order to particular facts.

As a private Catholic college, La Salle pursues these aims in a religiously diverse community of teachers and students interested in studying secular subjects in their autonomy, undertaking religious studies in a systematic way, and investigating what interrelations these subjects may have. The community also engages in programs in which the students' personal, social, and religious values may take root and in which the students may grow in mature attitudes and behavior in all human relationships. The ultimate hope of the College is that its graduates will be ready for informed service and progressive leadership in their communities and will be able to fulfill the immediate and final goals of their lives.

## The Residential Community

Living in the La Salle residence halls can be an enhancing educational experience. Because you are at the College 24 hours a day you can more fully participate in campus activities and organizations. You are close to class, to Hayman Hall, to the Library and to faculty offices; and you don't have the daily hassle of traffic jams, parking spaces, or bus schedules. Practically speaking, it is convenient to live in the residence halls. Economically speaking, it is not as expensive as one might think. The cost is less than \$6.00 a day for room and board.



An average of twenty-three residents live on each floor of the residence halls, a number which is small enough to encourage a spirit of friendship and large enough to provide for a mixture of personalities and a variety of interests. As a resident you are exposed to different people and opportunities and you will have many occasions to test your ability to handle your own affairs responsibly. Your development as an individual is limited only by your imagination and your willingness to participate in the life of the residence halls.

On-campus life is increasingly active. The Residence Council sponsors dances, parties, movies, coffee houses, lecture series, Sunday mass, trips, and an extensive intramural sports program. Hayman Hall offers an Olympic-sized pool, basketball courts, squash and handball courts, weight rooms, an indoor track, and a sauna bath. The College Union has programs which include a continuing film festival, concerts, lectures, plays and special events.

Proximity to center city Philadelphia offers frequent pop and rock concerts, year round pro sports, first run movies and plays, and cultural and historical resources. In warm weather the Jersey Shore is only an hour's drive away, and in cold weather, the ski slopes of the Pocono Mountains are roughly two hours away.

Life in a college residence hall is a unique experience which is not easily duplicated elsewhere. Living with peers, working, dining, and socializing together, is a singular experience which can be exciting and educational. At La Salle, many things—staff, students, facilities, organizations, location, and costs—all combine to offer residents opportunities to experience college life to its fullest.





# **General Reference**

## **Qualifications for Admission**

La Salle College does not discriminate against any applicant for admission because of race, color, creed, or national origin. Admission is based solely upon an applicant's qualification and ability to meet the established admission requirements.

If a student is well-motivated toward a college career and can show evidence of academic achievement and ability, the Admissions Committee will welcome an application. In arriving at its decision, the Committee studies the high school record, test scores, and the recommendations from high school faculty, guidance counselor, and principal. Each applicant is given personal consideration. The following are the specific requirements for admission:

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### **HIGH SCHOOL UNITS**

Your record should show successful completion of at least 16 units of high school work including the following:

English	4 units
Mathematics:	
Algebra & Plane Geometry or two years of Algebra	2 units
History	1 unit
Natural Science	1 unit
Foreign Language	<u>2 units</u>
	10 units

The remaining six units may be distributed as follows:

1. Applicants for the *Liberal Arts* program may present six other units in academic subjects.
2. Applicants for the *Science and Mathematics* program may present six other units in academic subjects but including an additional one and one-half units in mathematics.
3. Applicants for the *School of Business Administration* may present six academic or commercial units, excluding typing.

### **LANGUAGE REQUIREMENTS**

All applicants should present two units in the same foreign language.

## ENTRANCE EXAMINATIONS

Applicants to the freshman class are required to take either the American College Testing Program or the Scholastic Aptitude Tests given by the College Entrance Examination Board. These tests should be taken no later than January (SAT) or February (ACT) of the senior year. Arrangements may be made through your high school counselor or by writing, six weeks before the test date, to either:

CEEB—              The Educational Testing Service  
                        Box 592, Princeton, N.J. 08540  
                        or  
                        Box 1025, Berkeley, Calif. 94701

OR                      The American College Testing Program  
ACT—                  Box 451  
                        Iowa City, Iowa 52240

La Salle College's identification number for both tests: 2363

## ACHIEVEMENT TESTS

The CEEB Achievement Tests are not required. These tests are helpful to departmental advisers, however, in determining placement in certain English, mathematics, and foreign language courses. They are recommended, therefore, to students who:

1. wish to apply for a waiver of the freshman composition requirement;
2. desire immediate placement in a calculus course;
3. plan to continue study of a language in college after having completed at least two years of that language in high school.

## APPLYING FOR ADMISSION

The Committee on Admissions will consider a qualified applicant for acceptance any time after completion of the junior year. The following credentials are required for evaluation:

1. A completed application to La Salle College.
2. A transcript of three year high school scholastic and personality records.
3. The results of the College Board Scholastic Aptitude Test or of the American College Testing Program.

The successful applicant must graduate from high school with creditable grades.

An interested student is encouraged to arrange for a campus visit, which might include a personal interview and tour.

In exceptional cases, students may be admitted after completion of the junior year on the recommendation of their high school counselor and evidence of superior achievement.

Applicants may secure application materials from the Office of Admissions. These materials include a form which is to be mailed directly to the College by the high school. Completed applications and the \$15.00 application fee should be sent to the Office of Admissions. The Director of Admissions will notify applicants as soon as possible after a decision has been made. If accepted, a student is asked to forward a \$100.00 deposit, usually within three months of acceptance. This deposit will be applied to first semester expenses; the entire deposit is forfeited if an applicant chooses not to attend La Salle.

#### **ADVANCED PLACEMENT PROGRAM**

La Salle College participates in the Advanced Placement Program of the College Entrance Examination Board. Consequently, the College agrees to give credit and/or advanced placement to students who perform satisfactorily both in college-level courses taken in secondary school and in the advanced placement examinations administered by the Board. The equivalents for the grading scale are:

- 5 or 4=Advanced credit and advanced placement
- 3=Same, on recommendation of departmental head
- 2=Advanced placement only on recommendation
- 1=No advanced placement or advanced credit

#### **TRANSFER STUDENTS**

La Salle College welcomes qualified transfer students to the fall and spring terms, and to the Summer Sessions. Candidates for admission from colleges which offer courses of study similar to those of La Salle College should submit transcripts of high school and college records as soon after applying for admission as is possible. All transfer students should submit the results of College Entrance Examination Board tests or of the American College Testing Program, if available. A letter of appraisal from the Dean of Students of the college or university attended is requested in most cases.

All of these records should be in the Admissions Office at least 60 days before the beginning of the semester for which the student is applying. This interval is suggested to provide ample time to process the application, to evaluate transcripts, and to arrange a pre-registration interview.

The previous college record of the applicant must indicate good academic standing. A student applying for transfer from a fully accredited college or university should have a grade point average of 2.25 or higher (on a 4.00 scale). Transfer applicants from colleges which have applied for regional accreditation will be considered if their grade point average is 2.75 or higher (on a 4.00 scale). The decision on each applicant is based mainly on the grade point average earned at the college or university attended prior to applying to La Salle.

Credit will be allowed for courses completed with grades above the lowest passing grade given at the institution from which the applicant is transferring. Normally, 70 credits may be accepted for transfer.

A transfer student may be required to make up certain courses which belong to the sequence required in the program of studies for which he is applying.

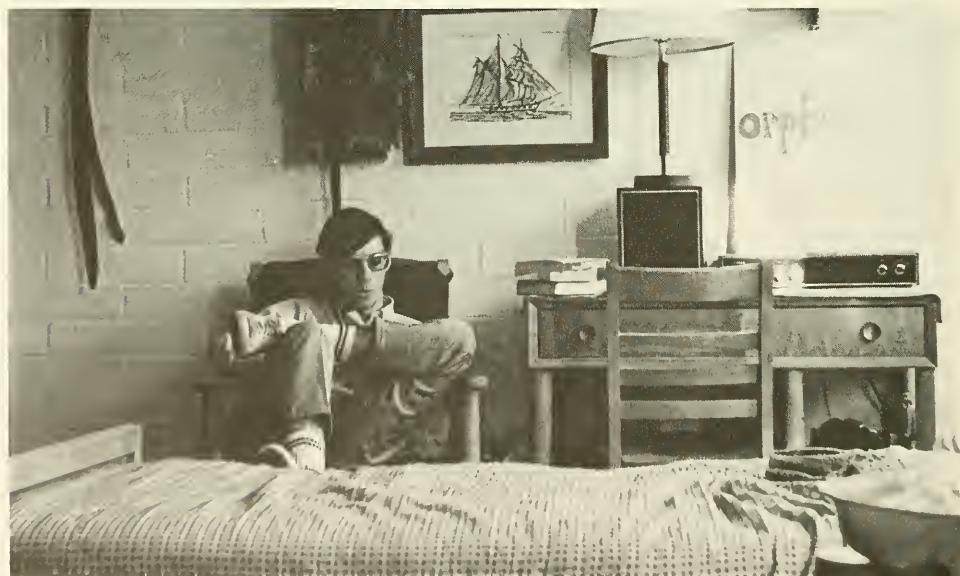
La Salle College participates in the College-Level Examination Program of the College Entrance Examination Board. Qualified transfer students and others

with advanced preparations who wish to be considered for advanced credit through this program should write for information to the College-Level Examination Program, Educational Testing Service, Box 977, Princeton, N.J. 08540.

Interested prospective transfer students should direct their inquiries to the Coordinator of Transfer Admissions.

#### ADMISSIONS FOR VETERANS

All veterans with proof of a high school diploma or its equivalent, who have not been dismissed or placed on probation at another institution of higher learning since separation from service, are eligible to enroll as full time students at La Salle College. Veterans should telephone the Admissions Office to arrange an interview with an admissions counselor.



## **ACCOMMODATIONS FOR RESIDENTS**

The residence halls accommodate approximately 700 students, and consist of nine dormitories, most of which are coed, and an apartment complex, with two bedroom furnished apartments, open to married students and to seniors. To reserve a room in the residence halls, a student should indicate on the application an intention to live on campus, and when confirming acceptance to the College submit the required \$50.00 residence hall deposit. Should the student decide not to occupy the room reserved, the entire advance deposit is forfeited.

Each room in the residence hall is furnished with a bed, desk, bureau, book shelf, mirror, two lamps, an easy chair, and drapes. The apartments are similarly furnished. Students may supply their own linen; however, the College will provide a weekly linen supply service for the charge of \$10.00 per semester. Adequate laundry facilities are available within the dorm complexes. Many personal needs such as toilet articles, paper supplies, towels, magazines, and sportswear may be purchased at the Campus Store.

All residence halls provide complete study, recreation and living learning facilities. There is an air conditioned, carpeted, study room in each dormitory, and a large centrally located study lounge equipped with air conditioning and comfortably furnished for quiet study. There are four other large, well-furnished lounges equipped with color televisions, and a smaller lounge with a fully equipped kitchen.

Meals are provided in the College Union Dining Halls. Since the meals must be planned on the basis of total participation by the resident community, no adjustment in fees can be expected for meals not taken on campus. Students have the option, however, of purchasing either a five or seven day meal ticket. Special diets for medical reasons can be arranged through the Director of Food Services.

Both the residence halls and the dining halls are closed during the Thanksgiving, Christmas, and Easter recesses.

The dormitories have facilities for the installation of telephone service into each room. Residents who desire to avail themselves of this service should make arrangements directly with the telephone company. Public telephones are also located on every floor of the residence halls. Calls for residents can not come through the College switchboard.

Residents are permitted to have cars on campus. The lot facilities are adjacent to the halls, but during class times parking is limited.

The residence halls administration is headed by a professionally trained staff who reside there. In addition, a student staff member resides on each floor of the dormitories to provide information, and referrals, and assistance in problem solving and program planning. The staff is an outgoing and diversified group who are interested in working with students to make their college life in residence an enjoyable and worthwhile experience.

## **COURSE SELECTION**

Incoming freshmen will receive a course selection form in the mail after they have confirmed their acceptances. At this time they may indicate their choice of courses for both the fall and spring terms. Additional academic counseling is available to freshmen during the Pre-College Counseling Program in the summer.



## 20 Expenses

		Liberal Arts and Business Administration	Science*
Tuition—per academic year .....		\$2,100.00	\$2,200.00
Tuition—for courses taken in excess of or less than a normal schedule—per semester credit hour .....	65.00	65.00	
Science Laboratory Fee—charged non-science majors electing to roster certain designated science courses—per course .....	25.00		
Fees (charged to entering students):			
Counseling and Testing .....	25.00	25.00	
Books and Supplies—per semester (estimated) .....	70.00	70.00	
<hr/>			
		7-day meal book	5-day meal book
Room and Board:			
Residence Halls—per academic year:			
Single room .....	\$1,400.00	\$1,230.00	
Double room .....	1,250.00	1,080.00	
La Salle Hall Apartments—room rent only:			
Student occupied—per student—per academic year .	570.00		
Married couple or family occupied—per month .....	150.00		
Meal book purchased separately—per semester .....	390.00	290.00	

\*Applicable to those taking programs in biology, chemistry, physics, or earth science.

There are no additional fees for matriculation; registration; library, athletic facilities, or dispensary services; participation in student activities; the student newspaper; or the student identification card for admission to athletic events. However, in the face of rising costs, La Salle College must reserve the right to amend or add to the charges at any time and to make such changes applicable to students presently enrolled as well as to new students.

## **METHOD OF PAYMENT**

Students are billed twice a year for one-half of the annual tuition and the room and board costs. Invoices for the fall semester are due in mid-August and for the spring semester in mid-December. Payment in full of the semester invoice within the time prescribed is a prerequisite to the completion of registration and inclusion on the official class lists.

The College does not carry open student accounts. Extended or monthly payments may be arranged, but ONLY through a BANK LOAN PROGRAM offered by a Philadelphia bank. Application for the bank loan program must be made directly with the bank well in advance of registration. Information regarding the bank loan program may be obtained at the Office of the Bursar of the College.

## **GRADUATION FEE**

A graduation fee of \$40.00 is due and payable in the spring semester in which the individual will receive his degree. The College cannot be responsible for the inclusion in the graduation program of any candidate who pays fees after the deadline set at the billing date. The graduation fee covers the Senior-Faculty Reception, baccalaureate services, the cost of the diploma, the use of cap and gown, and all other expenses incidental to the commencement exercises. No candidate may be recommended for a degree, diploma, or certificate until the graduation fee and all other financial obligations have been paid.

## **REFUND OF TUITION**

Under certain circumstances, the student who withdraws may receive a partial refund on his tuition. Information on terms and conditions is available on the student's matriculation card. There are no exceptions to these terms and conditions. Additional inquiries may be directed to the Bursar's Office.



# **Scholarships and Financial Assistance**

No student is denied admission because of financial need. The financial aid program at La Salle College provides opportunities for scholarships, grants, loans, and student employment. Applicants for financial aid will be considered for any form or combination of forms of assistance.

Since the primary responsibility for college expenses rests with the parents and student, financial assistance is normally granted on the basis of financial need together with demonstrated and potential academic achievement. La Salle College participates in the College Scholarship Service. Candidates seeking financial assistance are required to submit a Parents' Confidential Statement to the Service. Forms are available at the guidance office of the secondary school or from the College Scholarship Service, P.O. Box 176, Princeton, New Jersey 08540.

## **COMPETITIVE SCHOLARSHIPS**

Up to thirty tuition scholarships are offered annually to high school seniors who have demonstrated exceptional academic aptitude and achievement. These awards are renewed annually for the remaining three years provided the recipient maintains a 3.0 (B) average. Application forms for these competitive scholarships may be obtained from the Director of the Honors Program. The completed forms must be received by La Salle College no later than February 15. The applicant must arrange to take the tests of the College Entrance Examination Board in Scholastic Aptitude or the American College Testing Program no later than the January testing date. Arrangements for the tests must be made directly with the College Entrance Examination Board, Princeton, New Jersey. Applicants must request the Board to send results to the Admissions Office, La Salle College, Philadelphia, Pennsylvania 19141.

## **CHRISTIAN BROTHERS' SCHOLARSHIPS**

La Salle College offers fifteen scholarships to students graduating from all Catholic high schools in the Camden and Philadelphia dioceses and from high schools conducted by Christian Brothers of the Baltimore province. Competition is based on academic excellence and extracurricular activities and is restricted to students nominated by their high school principal. Scholarship application forms will be sent directly to nominees designated by the principals.

## **NATIONAL MERIT SCHOLARSHIPS**

La Salle College sponsors four National Merit Scholarships annually. To be eligible for one of these scholarships, a student must take the regular National Merit Scholarship Test and indicate his intention of attending La Salle College. These scholarships are administered by the National Merit Scholarship Corporation; it uses the regular procedures of its national competition and assigns the amount of the award based on need with a maximum of \$1,500.00 each year for four years.



## **ARMY ROTC SCHOLARSHIPS**

The Department of the Army sponsors one- two- three- and four-year scholarships to incoming freshmen and to upperclassmen in the ROTC program. Each scholarship provides free tuition, textbooks and laboratory fees, and carries a \$100.00 monthly stipend.

Application for four-year scholarships must be submitted by high school seniors before January 15. Requests for applications should be addressed to Army ROTC, P.O. Box 12703, Philadelphia, Pa. 19134. It is advisable to write for and obtain an application as early as October of the senior year.

Recipients of one- two- and three-year ROTC scholarships are chosen on a competitive basis from among students in the La Salle ROTC program who must apply directly to the Professor of Military Science at La Salle.

## **LAW ENFORCEMENT EDUCATION PROGRAM**

This federal assistance program is designed to help improve the nation's criminal justice system—police, courts, and corrections—by enhancing the quality of criminal justice personnel through opportunities for higher education.

Loans as well as grants are available to students at La Salle College who are actively employed by a law enforcement agency.

For further information and applications, contact the Director of Financial Aid, La Salle College.

## **SCHOLARSHIPS FROM OTHER SOURCES**

Some scholarships and grants are made available annually by agencies in the Philadelphia and neighboring communities to students entering the College or to upperclassmen already in attendance.

Information about off-campus grants frequently held by La Salle students which involve competition or appointment can be obtained from the following:

1. Pennsylvania State Scholarships, Pennsylvania Higher Education Assistance Agency, Towne House, Harrisburg, Pennsylvania 17102.
2. New Jersey State Scholarship, Department of Education, Box 1293, Trenton, New Jersey 08625.
3. Food Fair Stores Scholarships, The Food Fair Foundation, Food Fair Building, 3175 John F. Kennedy Blvd., Philadelphia, Pennsylvania 19104.
4. Philadelphia City Scholarship Program, 516 City Hall Annex, Philadelphia, Pennsylvania 19107.
5. The Hero's Scholarship, City of Philadelphia, Room 490, City Hall, Philadelphia, Pennsylvania 19107.
6. Bulletin Scholarship Foundation, Bulletin Building, Philadelphia, Pennsylvania 19101.
7. J. Wood Platt Caddie Scholarship, c/o Cecil J. Barnett, Esq., 29 Bala Avenue, Bala-Cynwyd, Pennsylvania 19004.

#### **LOANS AND EMPLOYMENT OPPORTUNITIES**

La Salle College participates in the loan program as established by the National Direct Education Act. Students who demonstrate financial need are eligible for consideration for long term loans under the provisions of the act. All loans are offered to meet educational expenses only and are granted on the same basis as all other financial aid.

In addition, the Guaranteed Loan Program, which is similar to the National Direct Student Loan Program, was authorized by the Higher Education Act of 1965. Under this program, the student borrows directly from a bank or other financial institution, instead of through the College. Students desiring further information on this program should direct their inquiry to the Director of Financial Aid.

La Salle College also participates in the Federal College Work-Study Program. A number of on-campus jobs are available on a part time basis. Applications may be obtained from the Financial Aid Office. Care is taken to insure that this activity does not interfere with the student's academic and extracurricular life.

#### **BASIC EDUCATIONAL OPPORTUNITY GRANTS**

Currently, this program provides the possibility of grants for freshmen and sophomores. To be eligible, the student must file an application with the federal government. Applications may be obtained from high school guidance counselors or from the Financial Aid Office at La Salle.

#### **SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANTS**

The Supplemental Educational Opportunity Grant program was established by the Higher Education Act of 1965. Its purpose is to provide grants to students of exceptional financial need who, for the lack of financial means of their own or of their families, would be unable to enter or remain in college without such assistance.

Applications are available from the Office of Financial Aid, La Salle College.

## **PROCEDURES FOR APPLYING FOR FINANCIAL ASSISTANCE**

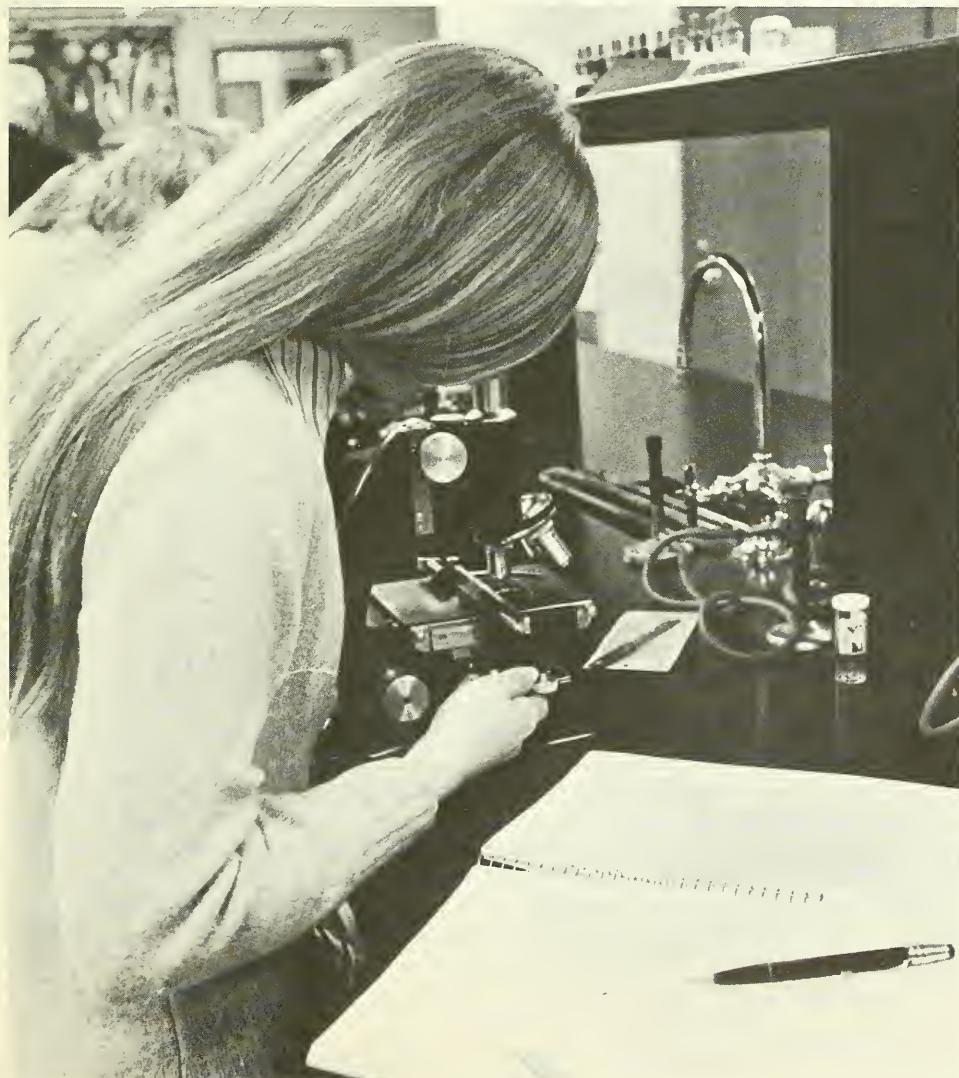
A candidate who desires financial assistance must submit the Parents' Confidential Statement to the College Scholarship Service or the Family Financial Statement to the American College Testing Program.

Either statement should be filed no later than January 15. Applications received after that date will be considered only if there are funds available.

Financial aid awards will be announced at the time of the offer of admission or as soon thereafter as possible.

Most types of financial aid require annual re-application. All applications for renewal must be filed with the Financial Aid Office prior to April 15 of each succeeding year.

La Salle College's financial aid program is organized to help the able student who needs financial assistance. As long as the student continues to demonstrate academic progress as well as financial need, the College will make every effort to assist him.



# **Academic Programs and Procedures**

## **REGISTRATION**

During an announced pre-registration period in the spring term, a student meets with his chairman or adviser to plan his roster of courses for the upcoming year. On the basis of this pre-registration, the Registrar's Office publishes a Master Roster listing courses, times scheduled, and teachers assigned. The student then chooses his course section, time, and teacher. The Business Office will bill the student in August and December for the courses chosen, completing the registration process.

Students who have not completed mail registration will register on campus during the week before classes begin.

If a student cannot register during this period because of circumstances beyond his control, he may complete registration during the first two days of classes.

Late registration is permitted only in the most unusual circumstances and requires the permission of the dean of the school and the payment of a fee of \$10.00.

## **PROGRAM OF STUDIES**

The program of studies prescribed by the student's adviser and approved by the dean of the school in which the student is enrolled is his official roster of courses.

It is the student's responsibility to see that all the requirements of his program are fulfilled. He should have in writing from the dean any exceptions to the prescribed program which may be granted him.

A student may be permitted to change from one program to another, or from one area of instruction to another, only when his previous record indicates that he may profit by such a change. In any change of this type the student must have the written permission of his chairman and the dean of his school. This change may entail taking approved summer courses or an additional semester in college. In no case may a student who transfers receive promotion or a degree sooner than he would have received it had he not transferred. No degree may be received less than one year after change of curriculum.

## **CLASSIFICATION OF STUDENTS**

A full time student carries a minimum of twelve semester hours, although normal progress toward a degree requires an average of fifteen hours a week. A student's program may require more hours per week in some areas of instruction.

Class level is determined by the number of credit hours earned by the student. Students having 0 to 23 credit hours are considered freshmen; those who have earned 24 to 53 credits are sophomores; those having 54 to 83 hours juniors; and those with more than 84 credit hours are classified as seniors.

Part time students carry a roster of less than twelve hours per week. Students in this category will require more than the normal four years in which to earn a degree.

Students who do not fulfill certain admission requirements may be admitted to follow particular courses and are considered as special students. They do not register for a degree granting program. Credits earned by a special student may be counted towards a degree as soon as he has met all the requirements for admission and candidacy for a degree provided that the credits thus earned be applicable to his program of studies for the degree. A special student cannot hold a scholarship nor take part in extracurricular activities.

### **INTERDISCIPLINARY PROGRAMS**

The interdisciplinary program offers the freshman an approach to education marked by a focus upon a common topic jointly taught by several faculty members. Examples of topics studied are: "Man and His Environment," "Repression and Expression," and "Work and the Quality of Life." Particular concerns also include the growth of a student-teacher community of learning and the opportunity for students to develop responsibility as participants in the directing of the program.

In the freshman year the student takes from six to twelve hours (two to four courses) in interdisciplinary work. These courses satisfy certain General Education and Distribution requirements. The student has the option to take the courses on a pass/fail basis. Ordinarily, science majors and students enrolled in the honors program are not eligible.

### **DUAL MAJORS**

In some circumstances, a student with special needs and abilities may be permitted to major in two departments or to follow a special interdepartmental program. After developing the program in consultation with both departments, the student must obtain approvals of both chairmen and of the dean. Arrangements should normally be completed during the spring semester of the sophomore year.

### **HONORS PROGRAM**

The honors program is designed to provide the most academically talented students with an enriched program of general studies that will be both challenging and stimulating. The freshman honors student, as an apprentice in the program, studies in honors sections of two or three required courses. If he proves himself able and interested, he continues with honors courses in such areas as religion, philosophy, and English, which offer more depth and more advanced reading. In the upper division, such courses will frequently be given by distinguished visiting professors.

In his last two years, the honors student may, with the approval of his chairman, substitute an independent study course in each semester for any regularly scheduled course except religion or seminar. Class meetings in these courses are less frequent, and emphasis is on individual reading and research. During the course of the regular academic year, visiting lecturers and authorities in various fields are invited to the Honors Center for small and informal discussions with interested honors students. Further information on the program is available from the Director of the Honors Program.

## **COOPERATIVE EDUCATION PROGRAM**

The Cooperative Education Program permits students to integrate classroom theory with practical experience by alternating specific periods of attendance at the College with specific periods of employment.

A student may begin a coop program as early as the sophomore year and still complete requirements for graduation within four and a half years. Cooperative education can add relevance to a student's academic program, furnish practical experience, afford an understanding of human relationships outside of one's peer group, and provide realistic vocational information as well as financial assistance.

Students interested in learning more about this new program should see the Director of Cooperative Education.

## **LA SALLE IN EUROPE—FRIBOURG, SWITZERLAND**

Recognizing the advantages of travel in other countries and first-hand contact with other cultures, La Salle College offers a sophomore and junior year program which provides its students a first-hand opportunity to study at the University of Fribourg in Switzerland. Nestled in the valley of the Sarine, Fribourg is one of the most beautiful cities in one of the most beautiful countries in the world.

A unique feature of the University of Fribourg is its official bi-lingual character; courses are offered in both French and German, often the same course in either language. In conjunction with two other colleges (Providence and Rosary), La Salle College forms part of the American College Program of the University of Fribourg. This organization offers many courses in English.

In most instances, students will be housed in private homes or apartments located near the university. These rooms are chosen by the resident director of the program. Students accepted into the program attend an orientation course during the semester prior to departure. Those students deficient in French or German will be permitted to enroll in special courses during the summer prior to departure. Interested students should see Dr. Leonard Brownstein, Director of Foreign Studies.

## **UNDERGRADUATE LANGUAGE PROGRAM—UNIVERSITY OF SEVILLE**

La Salle College is a member of the Council on International Educational Exchange and a consortium of 40 colleges and universities which forms a Cooperative Study Center in Seville, Spain.

The University of Seville is one of the oldest universities in Spain. Students may apply for a semester or an entire academic year. Each five-month session consists of two cycles. The first provides intensive language training, and the second offers a variety of special courses including Spanish language, literature, art, contemporary civilization and teaching English as a foreign language. Students are housed in private homes. Meals are taken at the place of residence.

The principal aims of the program are:

1. To help the student achieve fluency in the spoken and written language.
2. To give the student the opportunity to experience and understand the nature of Spanish society and institutions through constant and direct exposure to the nation's history, art, and contemporary life.
3. To prepare the future teacher of Spanish for the role which he will play in the classroom situation.

Interested students should see Dr. Leonard A. Brownstein, Director of Foreign Studies.

#### **NURSES' COOPERATIVE PROGRAM**

La Salle participates in a cooperative program with a number of area hospitals in teaching the basic sciences to the students from these hospital schools. The essential program remains under the control of the parent schools. These students receive college credit for those courses attended at La Salle.

#### **URBAN STUDIES AND COMMUNITY SERVICES CENTER**

The Urban Studies Center seeks to involve the human, academic, and material resources of the College in the larger urban community in which it is located. Such involvement in the community's growth and development enables the College to draw upon the practical experience with urban problems possessed by many in the local community, thereby broadening the base of the education offered its students. The relationship further aids the College in developing an urban studies curriculum relevant to the community perspective and initiative. The Center is located on the corner of Wister and Clarkson streets.

#### **COMMUNITY ACADEMIC OPPORTUNITY PROGRAM (CAOP)**

The CAOP Program provides an opportunity for a college education to selected disadvantaged students who are residents of Northwest Philadelphia. Students are chosen for this five-year program on the basis of geographic, economic, academic, and motivational criteria. Interested applicants should follow the normal procedure in applying for admission, indicating their interest in the CAOP Program on their application.

#### **COURSES AT CHESTNUT HILL COLLEGE**

The cooperation of La Salle with Chestnut Hill College, a Catholic college for women situated about five miles from La Salle, results in a valuable co-ordination of programs. Students from either of the associated colleges can register for courses at the other college, with full credits, and without the payment of extra tuition. The calendar for the academic year in both colleges is identical. Students wishing to register for courses offered at Chestnut Hill will follow the same procedure as when they register for courses at La Salle. Classes at Chestnut Hill begin on the hour, at La Salle on the half-hour.

Students interested in preparing for elementary education may take part in a special cooperative program with Chestnut Hill College, which may be arranged in consultation with the Dean of the School of Arts and Sciences.

#### **SUMMER SESSIONS**

A variety of courses are offered in both day and evening sessions during the summer. A student may use these courses to enrich his academic program,

to lighten his regular schedule, to make up failures, or, in some instances, to accelerate his progress toward a degree. The Summer Sessions are administered by the Dean of the Evening Division.

Properly qualified applicants from other accredited institutions are also admitted to the Summer Sessions.

#### **RESERVE OFFICERS' TRAINING CORPS PROGRAM**

Freshmen may elect to participate in the Reserve Officers' Training Corps at La Salle by so specifying on their Course Selection Form. No service obligation is incurred during the first two years. Women students may enroll in military science courses on a college credit basis.

Students who successfully complete the basic course for freshmen and sophomores may be chosen for the advanced course. Advanced course students and ROTC scholarship recipients also earn a monthly stipend of \$100.00. (See page 23 for additional information on the ROTC Scholarship Program.) Cadets earn approximately \$280.00 per month while attending the Advanced Summer Camp.

Students transferring to La Salle as juniors, or current students who have not previously participated in ROTC, may take advantage of the special two-year program. They should make arrangements through the Professor of Military Science during the spring term of their sophomore year. They begin the program by attending a six-week Basic Summer Camp the summer before their junior year. During their last two years, they attend ROTC classes and take part in the Advanced Summer Camp.

Additional information is available from the Professor of Military Science, La Salle College, Philadelphia, Pa. 19141.

#### **ATTENDANCE POLICY**

Students are expected to attend classes regularly. Absences are permitted to provide for conditions beyond the control of the student. Ordinarily, these would be equal to twice the semester hours scheduled for the course; for example, six absences in a three hour course. Attendance is noted from the first regular class meeting regardless of the time of registration.

#### **EXAMINATIONS**

The last week of each semester is set apart for final examinations. Examinations to measure student progress are given at mid-term. Students who, for satisfactory reasons, fail to take a semester examination at the scheduled time may take a delayed examination.

#### **GRADES**

The following system of grades is used in measuring the quality of student achievement in courses:

A Superior	C Average	F Failure	W Withdrawal	U Unsatisfactory
B Very Good	D Passable	I Incomplete	S Satisfactory	X Audit

In the determination of final grades for courses, recitations, written assignments, and the results of the final examination are considered.

**Incomplete:** The I grade is a provisional grade given by an instructor to a student who has otherwise maintained throughout the semester a passing grade in the course, but who has failed to take the semester examination for reasons beyond his control. Make-up examinations for the fall semester must be completed before the opening day of the spring semester. All I grades that have not been removed within three weeks after the last regular examination of the semester become F's. When it is physically impossible for the student to remove this grade within the time limit, he must obtain a written extension of time from the dean of his school.

**Withdrawal:** The W grade is assigned when a student withdraws from a course with the dean's permission before its completion. Ordinarily permission for withdrawal is not granted after mid-term examinations.

**Satisfactory or Unsatisfactory:** Students may take free electives under a pass/fail option. If they indicate this option to the Registrar within two weeks after the course begins, the grade for the course will be recorded as S or U. Such a grade will not affect the cumulative index, but semester hours graded S will be counted toward the total required for graduation. The purpose of this option is to encourage choice of challenging electives, including those outside the student's major field.

**Audit:** The X grade is assigned for courses audited. A student wishing to audit a course must so indicate at registration and must have permission from his instructor and dean.

**Courses repeated:** If a student repeats a course, only the higher grade is counted in the academic index. A student may not repeat a course more than once without permission from his dean.

## **STUDENT RESPONSIBILITIES**

A student's matriculation at La Salle College is a voluntary decision which involves acceptance of the responsibility to perform academically and to behave socially in ways consistent with the goals and objectives of the College. When registering at La Salle, the student accepts College rules and regulations and the authority of the College to exercise disciplinary powers including suspension and dismissal. As a member of student organizations and as an individual, the student assumes responsibility for knowing and complying with all existing regulations in the College Bulletin, the Student Handbook and any rules and regulations subsequently promulgated through appropriate publication to the College community. Copies of the Student Handbook may be obtained from the Dean of Students' Office.

## **STUDENT REPORTS**

A progress report is submitted to the Dean's Office by each instructor at the middle of each term. Final grades are submitted to the Registrar's Office at the end of a semester and these are made part of a student's permanent record. A report of semester grades is mailed to the student within two weeks after final examinations.

## **SCHOLARSHIP INDEX**

A scholarship index system is used at La Salle to determine a student's average grade. In determining the index, each letter grade is ascribed a numerical value, called grade points. A is valued at 4 grade points; B is valued at 3 grade points; C is valued at 2 grade points; D is valued at 1 grade point; F is valued at zero grade points.

A grade point score is calculated for each course by multiplying the numerical equivalent of the letter grade by the number of semester hours. The index, or the average grade of all courses, is found by dividing the sum of the grade point scores for all courses by the total number of semester hours of course work attempted.

## **ACADEMIC STANDING**

First year students are required to earn a minimum average of 1.50 to be in good academic standing; second year students, 1.75; third year students, 1.90. Averages are computed at the completion of each semester.

## **DEANS' HONOR LIST**

The Deans' Honor List is published at the termination of each semester.

Those students who have a cumulative average of 3.4 are placed on the Deans' List. To be eligible for this list, a student must have complied with all the regulations of the College and must be free of all academic censure. Freshmen are not eligible for inclusion on this list.

While students on the Deans' List are excused from class attendance regulations, they are expected to fulfill the requirements of every course rostered. They are also eligible for courses in the College's honors program.

## **ACADEMIC CENSURE**

Academic censure may assume any one of three forms, depending on the student's academic standing. An evaluation of student records is made at the end of each semester.

(a) *Probation.* A student is placed on probation when he has attained a cumulative grade point average of (a) less than 1.50 after the first or second term of his freshman year, (b) less than 1.75 after the first or second term of his sophomore year, (c) less than 1.90 after the first or second term of his junior year. Such a student will be continued on probation until he has satisfied the conditions for good academic standing.

(b) *Suspension.* This is involuntary separation of the student from the College for a definite period of time, usually for two semesters. No academic work during a period of suspension will be accepted for a student's academic record at the College.

(c) *Dismissal.* This is involuntary separation of the student from the College for an indefinite period of time. No academic work during a period of dismissal will be accepted for a student's academic record at the College.

A student is liable to suspension or dismissal: (1) when he has attained a cumulative scholarship index of (a) less than 1.00 during his freshman year, (b) less than 1.50 during his sophomore year, (c) less than 1.75 during his junior year, (d) less than 1.90 after his junior year; (2) when he is on probation for two successive semesters.

## **CREDIT FOR OFF-CAMPUS COURSES**

Course work taken at other institutions by regularly enrolled students at La Salle College may not be offered for credit unless the student has had written permission in advance from the dean of his school to take such courses. Credit is transferred only for marks of C or better. The student's index may be affected only if the credit is for a course previously taken at La Salle.

## **REQUIREMENTS FOR A DEGREE**

The candidate for a degree must have completed course work equivalent to a minimum of 120 semester hours. Certain curricula may require a number of hours exceeding this minimum.

He must have obtained a C average or cumulative index of 2.00 in his prescribed program of studies.

He must have fulfilled all course requirements prescribed for him by the chairman of the department in which he majored and approved by the dean of the school in which he is enrolled.

He must have fulfilled the General Education and Distribution requirements.

He must have completed eight semesters as a full time student, including the two semesters of his senior year.

## **HONORS**

The bachelor's degree with honors is conferred on a student who has completed his course at the College with an average of all marks not lower than 3.4 and who has not incurred the penalty of loss of good standing for disciplinary reasons.

The candidate for the bachelor's degree who has earned an average of 3.8 in all courses is graduated with the distinction *Maxima Cum Laude*.

The candidate who has earned an average of 3.6 is graduated with the distinction *Magna Cum Laude*.

The candidate who has earned an average of 3.4 is graduated with the distinction *Cum Laude*.

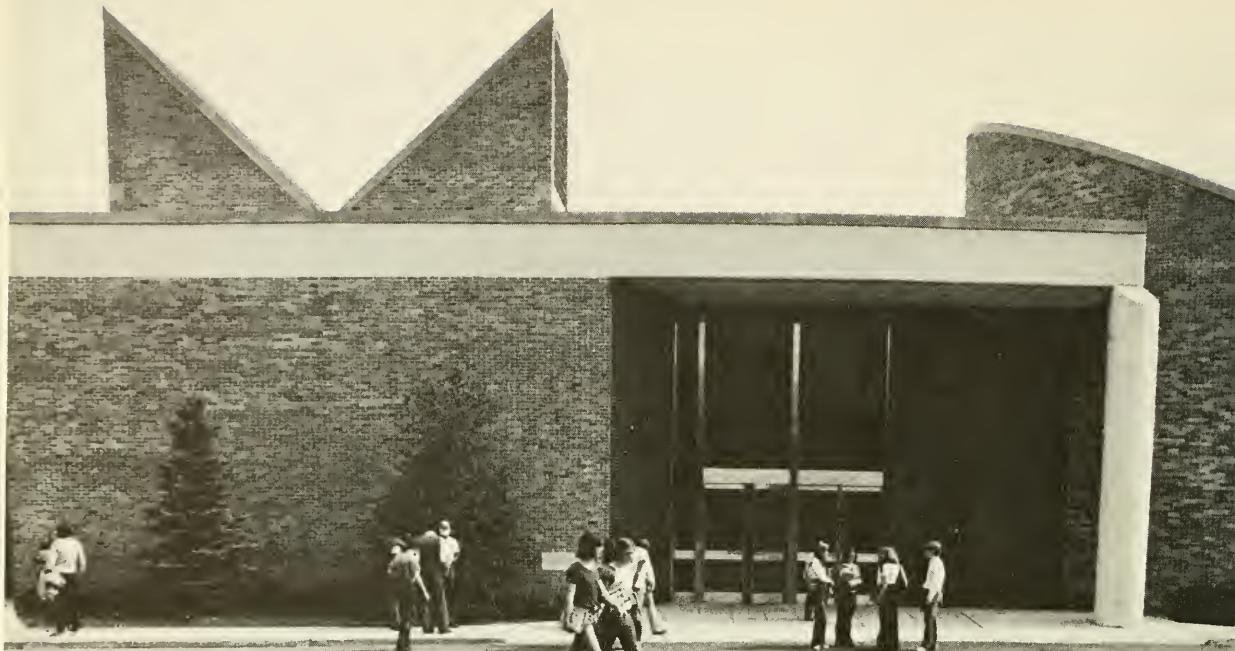
Honors are computed on the basis of the work done for eight semesters.

## **WITHDRAWALS**

A student who withdraws from the College must submit a withdrawal notice to the dean of his school. The date of filing the withdrawal notice is considered as the date of withdrawal in all cases.

## **TRANSCRIPTS**

Students may apply at the Registrar's Office for a transcript of their collegiate work. Official transcripts bearing the signature of the Registrar and the seal of the College are sent, at the request of the student, to other institutions and organizations. Students requesting transcripts for their own use are given copies marked "student copy." Each student is sent a copy of his transcript at the time of graduation. A fee of \$1.00 is charged for an official transcript. When several copies are requested at the same time, the fee is \$.50 for each additional copy. The College requires at least one week's notice for the issuance of transcripts. No transcripts can be issued until all financial obligations to the College have been satisfactorily settled.



# **School of Arts and Sciences**

## **DEGREE PROGRAMS**

The School of Arts and Sciences offers general or liberal arts programs and programs in science and mathematics. Within these two areas you may further specialize in a major field of study. In the liberal arts, the Bachelor of Arts degree is offered in art history, economics, English, foreign languages, history, music, philosophy, political science, religion, and sociology. Concentration in the science area may lead to a B.A. degree in biology, chemistry, earth science, mathematics, physics, or psychology.

The School also offers programs designed as preparation for law, medicine, dentistry, teaching, social work, and work in criminal justice.

### **Preparation for Medicine**

Most students preparing for medical school major in either biology or chemistry. However, a student may major in any program whose free-electives allow completion of the following basic courses in science and mathematics:

Chemistry .....	12-16 sem. hrs.
Physics .....	8
Biology .....	8
Mathematics .....	0- 6

Member institutions of the Association of American Medical Colleges specify these courses as minimum preparation for admission. Most, however, recommend additional courses. The premedical student is therefore advised to become familiar with the exact requirements of the school(s) to which applications will be made.

Medical schools review the applicant's full undergraduate record. Evidence of broad interest, rounded development, and leadership can lend strong additional support to applications.

Because of intensified competition for admission, many medical schools are suggesting that applicants with grade point averages below 3.0 have little chance of acceptance. Students are encouraged to consult with their Health Professions Adviser concerning admission criteria.

### **Preparation for Dentistry**

The basic requirements for admission to most dental schools are the same as those for admission for medical schools. The special courses, however, vary with each school. It is recommended, therefore, that the prospective dental student acquaint himself with the requirements of the school which he plans to enter.

### **Preparation for Teaching**

The teacher preparation program leads to eligibility for an Instructional I certificate to teach in the secondary schools of Pennsylvania and provides a foundation for those desiring to go on to further studies in the field. The Pennsylvania Department of Education has granted program approval in the preparation of teachers of biology, chemistry, English, French, German, Latin, mathematics, physics-mathematics, Spanish, and comprehensive social studies. Students who satisfactorily complete the College's requirements in these areas and are recommended by the Teacher Certification Committee are issued teachers' certificates. Those planning to teach outside of Pennsylvania should familiarize themselves with certification requirements elsewhere.

The Education Departmental Board, consisting of faculty members from the education department, one faculty representative for each of the subject areas of teacher preparation, and eight student representatives in the teacher preparation program makes final intradepartmental decisions on planning, conducting, and evaluating the teacher preparation program. A Teacher Placement Office on campus aids graduates in obtaining teaching positions.

For additional information on the teacher preparation program, see page 52.

### **TEACHER CERTIFICATION PROGRAMS AND ADVISERS:**

(Teacher certification is obtainable only in these areas.)

English—Brother Anthony Wallace

Biology, Chemistry, Mathematics, Physics-Mathematics—

Brother Richard Hawley

Comprehensive Social Studies—Mr. William Binkowski

French, German, Spanish, Latin—Dr. Leonard Brownstein

Special Education of the Exceptional Child—Emotionally

Disturbed, Mentally Retarded, and Physically Handicapped

(The program offers three different Instructional I certificates  
in each of the above-cited areas.)—Ms. Marilyn Roehm

(Further details on the specific requirements in each of these areas are available in the education department office or from the appropriate adviser.)

### **Preparation for Law**

Law schools do not prescribe particular curricula for admission. La Salle College, therefore, approaches the preparation for law on an individual basis, tailoring the program of each student to individual needs and desires. Thus, students may major in English, political science, history, etc., as preparation for law.

Any student considering law as a career, regardless of his major curriculum interest, is encouraged to seek early counseling with the pre-law adviser, Dr. Edward Domineske.

## CURRICULUM

The curriculum for Arts and Sciences students is structured in four parts:

1. General Education—7 courses (21 credits)
2. Distribution Requirement—8 courses (24 credits)
3. Departmental Requirements for Majors—ordinarily not more than 15 courses (45 credits)
4. Free Electives—minimum of 10 courses (30 credits)

The General Education courses, which will normally be completed by the end of sophomore year, concern themselves with the basic skill of written communication and with such value-oriented subjects as literature, religion, and philosophy. Each of these departments offers several courses which can be chosen to fulfill the General Education Requirement.

The range of choice is further widened by the Distribution Requirement, which is to be fulfilled by the end of junior year. Courses offered under this requirement help provide some depth outside your major field and also offer a measure of flexibility so that you can shape your program in accord with your interests.

The number of courses each department requires of its majors will normally not exceed 15, leaving at least 10 courses to be used as free electives. Some departments require their majors to take courses outside their primary field. Students may present such courses in fulfillment of Distribution Requirements.

The College recommends that students planning graduate studies acquire a good background in languages, since most graduate schools require a knowledge of one or two foreign languages before granting higher degrees.



## **GENERAL EDUCATION REQUIREMENTS (To be completed by end of sophomore year)**

English Composition .....	1 semester	(May be waived if writing competence is established.)
Literature .....	2 semesters	(English or foreign language in translation.)
Philosophy .....	2 semesters	
Religion .....	2 semesters	

## **DISTRIBUTION REQUIREMENTS (To be completed by end of junior year)**

Two courses in four of the areas below, exclusive of courses in your major

Area I	Area II	Area III	Area IV	Area V
English	Foreign Languages	Fine Arts	Economics	Biology
History	Mathematics	(Music or Art)	Pol. Science	Chemistry
		Philosophy	Sociology	Earth Science
		Religion	Psychology	Physics

## **MAJOR REQUIREMENTS**

Requirements for majors in each department are listed along with that department's course descriptions, beginning on page 39 of this catalog.

## **FREE ELECTIVES**

A student may choose to concentrate his free electives in a particular discipline to build a strong minor or may use these electives to diversify his background or broaden his interests. Free electives may be taken on a pass/fail basis. (See GRADES, page 31.)



## MODEL ROSTER FOR MAJORS IN ARTS AND SOCIAL SCIENCES

### FRESHMAN YEAR

Fall	Spring
Gen. Ed. Phil.	Gen. Ed. Rel.
Eng. Comp.	Dist. Req.
Gen. Ed. Lit.	Gen. Ed. Lit.
Major Course	Major Course
Dist. Req.	Dist. Req.

### JUNIOR YEAR

Fall	Spring
Dist. Req.	Major Course
Major Course	Major Course
Major Course	Major Course
Elective	Elective
Elective	Elective

### SOPHOMORE YEAR

Gen. Ed. Rel.	Gen. Ed. Phil.
Dist. Req.	Dist. Req.
Dist. Req.	Dist. Req.
Major Course	Major Course
Elective	Elective

### SENIOR YEAR

Major Course	Major Course
Major Course	Major Course
Major Course	Major Course
Elective	Elective
Elective	Elective

## MODEL ROSTER FOR SCIENCE MAJORS

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### FRESHMAN YEAR

Comp.	Dist. Req.
Gen. Ed. Rel.	Gen. Ed. Phil.
Gen. Ed. Lit.	Gen. Ed. Lit.
Major Course	Major Course
Mathematics	Mathematics

### JUNIOR YEAR

Dist. Req.	Dist. Req.
Dist. Req.	Major Course
Major Course	Major Course
Major Course	Major Course
Elective	Elective

### SOPHOMORE YEAR

Gen. Ed. Phil.	Gen. Ed. Rel.
Dist. Req.	Dist. Req.
Dist. Req.	Dist. Req.
Major Course	Major Course
Elective	Elective

### SENIOR YEAR

Major Course	Major Course
Major Course	Major Course
Elective	Elective
Elective	Elective
Elective	Elective

The above rosters illustrate ways in which the General Education Requirements, Distribution Requirements, Major Courses, and Electives might be scheduled over the four years.

## PROGRESS RECORD

This chart offers a convenient way of keeping track of your academic progress toward a degree. If you fill it out at the end of each semester and take it with you when you meet with your adviser for pre-registration, you will be assured of meeting the courses and hours required for graduation.

### GENERAL EDUCATION (7 courses)

	Semester Taken	Grade	Hours
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1. English Composition \_\_\_\_\_
2. Literature \_\_\_\_\_
3. Literature \_\_\_\_\_
4. Religion \_\_\_\_\_
5. Religion \_\_\_\_\_
6. Philosophy \_\_\_\_\_
7. Philosophy \_\_\_\_\_

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### DISTRIBUTION REQUIREMENTS

(8 courses—2 each from 4 of the 5 areas on p.38)

Area 1: (Eng., Hist.)

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Area 2: (Lang., Math.)

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Area 3: (Fine Arts, Phil., Rel.)

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Area 4: (Econ., Pol. Sci., Soc., Psy.)

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Area 5: (Bio., Chem., Earth Sci., Phys.)

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**MAJOR REQUIREMENTS** (Fill in after consulting Course Descriptions for your particular major program)

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_

### ELECTIVES (10 courses)

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

# **Course Descriptions**

The course descriptions in the following pages employ a completely new numbering system. For reference purposes, the previous number of each course is included in parentheses.

## **ART HISTORY**

(See Fine Arts, page 60)

## **BIOLOGY \***

BROTHER JAMES MULDOON, F.S.C., Ph.D., Chairman

Professors: Holroyd, Penny

Associate Professors: Bogacz, Lowery, Muldoon, Sullivan

Assistant Professors: Belzer, Hawley, Ksiazek

### **Required for Major in Biology: 17 courses**

- Biology 201, 407-408, and 6 additional biology courses totaling 33 hours. (The sequence of Biology 201, 202, 301, and 302 is strongly recommended by the department.)
- Chemistry 111-112, 201-202
- Mathematics 113-120 (Biology 314 may be substituted if Mathematics 120 is taken as first course.)
- Physics 105-106

#### **Biology 151-152. (110-111)**

ANATOMY AND PHYSIOLOGY

3-6 credits

A basic course in the structure and functioning of the human body with emphasis placed on the interrelationships of the major organ systems. May be taken by non-science majors to fulfill their Distribution Requirement. Two hours lecture, two hours laboratory.

#### **Biology 153-154. (117-118)**

GENERAL BIOLOGY

3-6 credits

For election in the distribution area by non-biology majors. Structure and metabolism of seed plants and vertebrate animals; brief survey of the plant and animal kingdoms. Consideration of evolution, ecology and genetics for both plants and animals. Course will incorporate lecture, visuals, demonstrations, and student investigations. Three hours lecture, no laboratory. Two terms.

#### **Biology 155.**

LIFE BEFORE BIRTH

3 credits

For election in the distribution area for non-biology majors. Lecture, visuals, demonstrations, and student investigation will illustrate the sequential formation of the human body from production of the reproductive cells, through fertilization and organ formation, to birth. In addition, common developmental problems and their causes will be discussed. Three hours lecture, no laboratory. Fall term.

#### **Biology 156.**

VARIATION IN MAN

3 credits

For election in the distribution area for non-biology majors. General principles of genetic transmission and their application to man. Discussion of currently developing procedures for genetic control which might have an impact on man, and of existing problems stemming from genetic transmission and chromosomal abnormality. Lecture, visuals, demonstrations, and student investigation. Three hours lecture, no laboratory. Spring term.

N.B. Non-majors planning to elect biology courses above the 200 level must secure the permission of the chairman.

<b>Biology 201.</b>	THE LIVING ORGANISM	4 credits
Integrated principles of modern biology; the attributes of life and hypotheses of its genesis; the continuity of life and its diversification; energy sources and the biological energy cycles; cells, organisms, and their structure and communities. Required of all biology majors; may be waived for advanced standing. Prerequisite: General Chemistry. Three hours lecture, two hours laboratory.		
<b>Biology 202.</b>	THE INVERTEBRATES	4 credits
Life processes, phylogenetic advances, and basic classification of the major pre-Chordate phyla with emphasis on their evolution and ecology. Three hours lecture, two hours laboratory.		
<b>Biology 251. (207)</b>	CLINICAL MICROBIOLOGY	3 credits
The physical and chemical techniques available for the destruction of microbes; the prevention of microbial contamination; role of specific pathogens in the etiology of human disease processes; chemotherapeutic and antibiotic preparations available to assist the body mechanisms. Recommended for nurses. Offered both semesters.		
<b>Biology 301. (303)</b>	THE VERTEBRATES	4 credits
Comparative systemic anatomy of the vertebrate classes; hypotheses of origin and radiation of the phylum Chordata. Laboratory dissections of representative Chordates from amphioxus to mammal. Two hours lecture, four hours laboratory.		
<b>Biology 302.</b>	THE PLANT KINGDOM	4 credits
Functional anatomy, phylogeny, and basic systematics of non-vascular and vascular plants. Three hours lecture, two hours laboratory.		
<b>Biology 303. (407)</b>	MICROBIOLOGY	3 credits
A lecture-laboratory course concerned with the role of microorganisms in nature and especially in human affairs. Two hours lecture, two hours of laboratory; one term.		
<b>Biology 305. (418)</b>	GENERAL PHYSIOLOGY	3 credits
Metabolic processes and associated physico-chemical phenomena of living organisms. Current hypotheses of muscle, endocrine, neural, respiratory, cardiovascular, and nutritional physiology. Prerequisite: Organic Chemistry. Two hours lecture, two hours laboratory.		
<b>Biology 306. (419)</b>	NEUROMUSCULAR PHYSIOLOGY	3 credits
A physiological study of cardiac, skeletal, and smooth muscle and their relationship to the central and autonomic nervous systems. One hour lecture, four hours laboratory.		
<b>Biology 308. (411)</b>	MICROTECHNIQUE	3 credits
Histochemical and cytological techniques associated with the preparation of animal and plant materials for microscopic study. One hour lecture, four hours laboratory.		

<b>Biology 310. (412)</b>		
GENETICS		3 credits
Mendel's laws of heredity as observed in plants and animals; the scope and method of modern genetics. Two hours lecture, two hours laboratory.		
<b>Biology 312. (425)</b>		
RADIOBIOLOGY		3 credits
Nuclear technology as applied to life sciences; theory, instrumentation, and use of radioactive isotopes in animals and plants. Two hours lecture, two hours laboratory.		
<b>Biology 314. (428)</b>		
BIOMETRICS		3 credits
Analysis of experiments and research data in quantitative biology. Probability distributions, analysis of variance, rectilinear and curvilinear regression, and correlation. Three hours lecture, one hour laboratory.		
<b>Biology 401. (414)</b>		
TAXONOMY OF THE ANGIOSPERMS		3 credits
Angiosperm systematics; field collecting and identifications; herbarium and greenhouse practice. Phylogeny, characteristics and importance of the leading families of flowering plants. Two hours lecture, two hours laboratory.		
<b>Biology 402. (408)</b>		
THE CELL		3 credits
Physical properties, chemical structure, and metabolism of simple and specialized cells; recent advances in the techniques of cell culture and investigation. Prerequisite: Organic Chemistry. Two hours lecture, two hours laboratory.		43
<b>Biology 403. (409)</b>		
PRINCIPLES OF ECOLOGY		3 credits
Basic concepts of ecological theory; physical and biotic factors affecting the evolution, behavior, and community organization of organisms. Three hours lecture with field observations.		
<b>Biology 404. (410)</b>		
FIELD ECOLOGY		3 credits
Project laboratory at the La Salle Penllyn Biostation; supervised student research projects in terrestrial and aquatic ecology. Recommended prerequisite: Biology 403. Six hours laboratory and field work.		
<b>Biology 405.</b>		
HISTOLOGY		4 credits
The minute and ultra structure of mammalian primary tissues together with their functional relationships in the formation of major organ systems; histological basis of function is stressed. Two hours lecture, four hours laboratory.		
<b>Biology 406.</b>		
EMBRYOLOGY		3 credits
Fundamental processes underlying vertebrate development and differentiation; the frog, chick, and pig form the basis of instruction. Two hours lecture, two hours laboratory.		
<b>Biology 407-408. (Chem. 433-434)</b>		
BIOLOGICAL CHEMISTRY		4-8 credits
The principles of physical chemistry as they apply to biochemical reactions and the principal biochemical species and reaction sequences; the role of these reactions in specific biological functions. Laboratory application of techniques of analytical chemistry to analysis of biochemical reactivity. Three hours lecture, three hours laboratory.		

**Biology 470. (427)**

SPECIAL TOPICS IN BIOLOGY

3 credits

Presentation of review papers and discussions of assigned topics from main currents of biological research; participants to be recommended by department staff.

**Biology 480-481. (422-423)**

BIOLOGICAL RESEARCH

2-4 credits

Laboratory or theoretical research under staff supervision; permission of chairman required. Hours to be arranged.



## **CHEMISTRY**

GREGORY CLAUDE DEMITRAS, F.S.C., Ph.D., Chairman

Professors: Barth, Paul, Wilson

Associate Professors: Demitras, Tekel

Assistant Professor: Straub

Lecturers: Boyko, Polek

### **Required for Major in Chemistry: 15 courses**

- Chemistry 111-112, 201-202, 305, 403, 301-302, 401, 402.
- Mathematics 120, 221, 222. (It is strongly suggested that chemistry majors begin with Mathematics 120 as freshmen.)
- Physics 105-106. (Physics 211 is excellent preparation for Chemistry 301 and 302, but is not absolutely required.)
- The department suggests that all chemistry majors have at least 400 hours of lecture and 500 hours of laboratory work, a reading knowledge of a foreign language, some advanced work in chemistry, physics or mathematics, and some research experience. This additional work may qualify a chemistry major for accreditation by the American Chemical Society. The chemistry program is accredited by the American Chemical Society.

#### **Chemistry 101-102.**

GENERAL CHEMISTRY

4-8 credits

A terminal course. Designed specifically for students who wish to obtain a general knowledge of chemistry in one survey course. Descriptive chemistry and the quantitative aspects of chemical principles are discussed. Three hours lecture, three hours laboratory; two terms.

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#### **Chemistry 111-112.**

GENERAL CHEMISTRY

4-8 credits

A general course based on physical principles; emphasis on elementary thermodynamics with applications to gases, solutions, heats of reaction, electrochemistry, ionic and non-ionic equilibria. Concepts of elementary quantum mechanics applied to spectral concepts and the theory of the chemical bond. Reaction kinetics applied to reaction mechanisms. Descriptive chemistry of the representative elements and transition metal complexes. Laboratory stresses the quantitative aspects of chemistry. Three hours lecture, three hours laboratory.

#### **Chemistry 201-202.**

ORGANIC CHEMISTRY

4-8 credits

Chemistry of carbon compounds with emphasis on structure, stereochemistry, synthesis and reaction mechanisms. Application in allied fields. Laboratory introduces techniques involved in organic synthesis, analysis, and study of reaction mechanisms. Intended for majors in chemistry, biology, and all students pursuing careers in the health professions. Prerequisite: Chemistry 111-112. Three hours lecture, three hours laboratory; two terms.

#### **Chemistry 301-302. (405-406)**

PHYSICAL CHEMISTRY

4-8 credits

Elementary principles of physical chemistry discussed and illustrated by suitable laboratory experiments. The ideal gas, real gases, liquids, solids, elementary thermodynamics, thermochemistry, solutions, equilibria, kinetics, electromotive force, electrical conductivity, and chemical thermodynamics. Prerequisites: Chemistry 201-202, Mathematics 221-222. Three hours lecture, three hours laboratory; two terms.

<b>Chemistry 305. (302)</b>	QUANTITATIVE ANALYSIS	4 credits
Neutralization, oxidation-reduction, chemical equilibria, colorimetry and the methods of quantitative chemical analysis. Thorough training in volumetric, gravimetric, and colorimetric techniques. Two hours lecture, six hours laboratory.		
<b>Chemistry 306. (402)</b>	QUANTUM CHEMISTRY	2 credits
Quantum mechanics applied to the solution of some elementary systems. Discussion of chemical bonding. Introduction to elementary statistical mechanics using results derived from quantum mechanics.		
<b>Chemistry 308. (431)</b>	BIOCHEMISTRY	4 credits
The chemistry of carbohydrates, fats, proteins, vitamins, enzymes, and hormones; emphasis on their roles in biochemical processes. Laboratory work illustrates common techniques used to prepare, identify, and assay biochemical materials. Prerequisite: Chemistry 201-202. Three hours lecture, three hours laboratory.		
<b>Chemistry 401. (407)</b>	QUALITATIVE ORGANIC ANALYSIS	4 credits
A study of the classifying reactions of organic compounds as exemplified by the analysis of compounds and mixtures in the laboratory. Restricted to chemistry majors. Prerequisites: Chemistry 201-202. Eight hours of laboratory per week and individual conferences.		
<b>Chemistry 402. (408)</b>	ADVANCED QUANTITATIVE ANALYSIS	4 credits
Theory and practice of physical measuring instruments with particular attention to the use of the instruments. Modern trends in analytical chemistry. Two hours lecture, six hours laboratory.		
<b>Chemistry 403. (401)</b>	ADVANCED INORGANIC CHEMISTRY	3 credits
The vector model of the atom, theoretical aspects of chemical bonding, descriptive chemistry trends relative to the periodic table, molecular structure and symmetry of molecules, and general discussion of the transition metals and their complex ions. Prerequisites: Chemistry 201-202, 301-302.		
<b>Chemistry 404. (430)</b>	ADVANCED ORGANIC TOPICS	3 credits
Designed to extend the knowledge of organic chemistry; emphasis on those topics not fully developed in the elementary course. An introduction to the literature of chemistry is also included. Prerequisite: Chemistry 201-202. Three hours of lecture.		
<b>Chemistry 471.</b>	SPECIAL TOPICS	3 credits
Courses in "Polymers and Polymer Coatings" and in "Chemical Marketing" are offered as Special Topics in the Evening Division and are open to day students.		
<b>Chemistry 480 and/or 481. (410-411)</b>	CHEMICAL RESEARCH	4-8 credits
Individual laboratory or theoretical work under supervision of a staff member. Restricted to chemistry majors. Hours to be arranged.		

## **COMPUTER SCIENCE**

(See Mathematics, page 86)

## **EARTH SCIENCE**

RODDY V. AMENTA, Ph.D., Chairman  
Assistant Professors: Amenta, Stephens

### **Required for Major in Earth Science: 15 courses**

- Earth Science 101, 102, 203, 204, 205, 301, 302, 303, 401, 402, 403, 470.
- Chemistry 101-102 or Chemistry 111-112.
- Suggested courses: Students anticipating graduate work in geology or closely related areas are advised to elect courses in basic sciences, mathematics, Russian or German.

#### **Earth Science 101.**

PHYSICAL GEOLOGY 3 credits

Principles of physical geology, including classification of rocks, weathering, earthquakes, volcanoes, glaciation, marine erosion, and mountain building. Two hours lecture, two hours laboratory and field trips.

#### **Earth Science 102.**

HISTORICAL GEOLOGY 3 credits

The geological history of the earth, with special reference to North America. The evolution of life through the ages. An introduction to oceanography. Two hours lecture, two hours laboratory and field trips.

#### **Earth Science 103-104.**

DESCRIPTIVE ASTRONOMY 3-6 credits

The celestial sphere and its coordinates; the telescope and other astronomical instruments, time and the calendar; the solar system; the stars—their distances, motion, spectra, luminosity, and development; binary and multiple star systems, nebula; and the external galaxies.

#### **Earth Science 201.**

PHYSICAL GEOGRAPHY 3 credits

A study of the genesis, formation, and characteristics of land forms. Laboratory exercises include an interpretation of land forms for topographic maps and aerial photographs. Two hours lecture, two hours laboratory.

#### **Earth Science 202.**

METEOROLOGY 3 credits

A treatment of the composition and properties of the atmosphere, observation of essential weather elements as well as the effects of weather and climate upon man and his activities. Two hours lecture, two hours laboratory. Prerequisites: Mathematics 113, 120.

#### **Earth Science 203. (206)**

OPTICAL MINERALOGY 4 credits

Elements of crystallography; the determination of minerals by means of the polarizing microscope. Two hours lecture, four hours laboratory.

<b>Earth Science 204. (402)</b> MINERALOGY AND PETROGRAPHY	4 credits
Descriptive and determinative mineralogy; identification and study of the more common rock types. Three hours lecture, three hours laboratory.	
<b>Earth Science 205. (302)</b> PALEONTOLOGY	3 credits
A review of the invertebrate and vertebrate fossil record. Correlation of biological development with the stratigraphic record. Includes recent advances in paleoecology. Two hours lecture, two hours laboratory.	
<b>Earth Science 301. (304)</b> STRATIGRAPHY	3 credits
An introduction to physical stratigraphy, methods of correlation of rock and time rock units; the interpretation of paleogeography. Two hours lecture, two hours laboratory.	
<b>Earth Science 302. (303)</b> SEDIMENTATION AND SEDIMENTARY PETROGRAPHY	4 credits
Analysis and interpretation of sedimentary processes; classification and analysis of the common sedimentary rocks. Three hours lecture, three hours laboratory.	
<b>Earth Science 303. (401)</b> STRUCTURAL GEOLOGY I	3 credits
A classical approach to structural geology involving the study of folds, faults, lineations, geologic maps, experimental deformation. Field trips. Three hours lecture, one hour laboratory.	
<b>Earth Science 401. (403)</b> IGNEOUS PETROLOGY	4 credits
The description, classification, petrology and geochemistry of igneous rocks. Prerequisites: Earth Science 203, 204. Three hours lecture, three hours laboratory. Field trips.	
<b>Earth Science 402. (404)</b> METAMORPHIC PETROLOGY	3 or 4 credits
The mineralogy, textures, and geochemistry of metamorphic rocks. Three hours lecture, three hours laboratory. Field trips.	
<b>Earth Science 403. (406)</b> STRUCTURAL GEOLOGY II	3 credits
Principles of structural analysis as applied to structures in metamorphic rocks; an introduction to tectonics. Three hours lecture, one hour laboratory.	
<b>Earth Science 470. (405)</b> TOPICS IN ADVANCED GEOLOGY	3 credits
A seminar course; topics vary from year to year. Prerequisite: permission of chairman. Two hours lecture, two hours laboratory.	
<b>Earth Science 480. (407)</b> RESEARCH	1-3 credits
Supervised research in geology. Can be elected in fall, spring, or summer.	

## ECONOMICS

JOSEPH P. MOONEY, Ph.D., Chairman  
Professors: Ciesla, Flubacher, Mooney  
Associate Professors: Duffy, Geruson, Kane  
Assistant Professors: Cairo, Grady  
Lecturers: Ratkus, Sadnicki

### Required for Major in Economics: 14 courses

- Economics 101-102, 201, 203, 303, 304, 313, 314, 411, 412.
- Mathematics 101-102.
- 2 courses in the social sciences (psychology, political sciences, or sociology).

#### Economics 101. (111)

INTRODUCTORY ECONOMICS I

3 credits

A study of the operation of the economic system, including a comparison of capitalistic and socialistic economies and consideration of the influence of government policies on economic activity. Emphasis on the U.S. economy and factors which determine employment, inflation, gross national product, and the money supply. A prerequisite for other economics courses except Economics 320, 411, 412.

#### Economics 102. (112)

INTRODUCTORY ECONOMICS II

3 credits

49

A continuation of Economics 101. Topics include: economic problems of the business firm; economic growth of society; urban problems associated with economic growth; economic approaches to ecological issues; international trade issues; economic problems of poor countries.

#### Economics 201. (203)

MONETARY THEORY

3 credits

An analysis of the role of money and the monetary system in determining income, employment, and the price level. Prerequisites: Economics 101, 102.

#### Economics 202. (325)

INTRODUCTION TO MATHEMATICAL ECONOMICS

4 credits

Designed to acquaint the student with certain topics in algebra, analytic geometry, and calculus which are most useful in their application in micro- and macroeconomic analysis. Prerequisites: Economics 101, 102.

#### Economics 203. (322)

AMERICAN ECONOMIC HISTORY

3 credits

History of the growth and development of the economic institutions of the United States from the Age of Discovery to the New Deal and their influences on political and social organizations. Prerequisites: Economics 101, 102.

#### Economics 213. (313)

ECONOMICS AND BUSINESS STATISTICS I

3 credits

General introduction to the basic ideas and procedures of statistical analysis with special emphasis on their application to economics and business. Methods of statistical description, index numbers, and time series analyses. Introduction to statistical inference using the normal probability distribution. Prerequisites: Economics 101, 102.

**Economics 214. (314)**  
ECONOMICS AND BUSINESS STATISTICS II 3 credits

Foundations of statistical inference as applied to decision-making on the basis of limited information. Basic concepts of probability, probability distributions, estimation and test of hypotheses, regression and correlation techniques. Prerequisite: Economics 213.

**Economics 301. (317)**  
LABOR PROBLEMS IN AMERICA 3 credits

Study of the sources of the union movement, its history, structure, and functions. Attention to the development of economics, political, and social power, as well as to the problems involved in the use of this power; management rights and management reaction to unions are also treated. Prerequisites: Economics 101, 102.

**Economics 302. (Adm. 322)**  
MANAGERIAL ECONOMICS 3 credits

Forms of competitive behavior, uses of marginal cost analysis, pricing techniques, and profit and demand measurement and forecasting. The process of evaluating alternative business solutions and tentatively formulating policies. Prerequisites: Mathematics 101-102 and junior standing. Both terms.

**Economics 303. (401)**  
INTERMEDIATE ECONOMIC THEORY I: PRICE THEORY 4 credits

Theory of consumer behavior, production, and cost. Price determination of products in various market models and of factors of production. Welfare economics. Prerequisites: Economics 101, 102.

**Economics 304. (402)**  
INTERMEDIATE ECONOMIC THEORY II: THEORY OF EMPLOYMENT,  
GROWTH, AND FLUCTUATIONS 4 credits

Theory of the level of income and employment. Theories of economic growth, traditional and modern. Theories of economic fluctuations, stabilization policies, and forecasting. Prerequisites: Economics 101, 102.

**Economics/Sociology 320.**  
INTRODUCTION TO URBAN STUDIES 3 credits

An introduction to the varied disciplinary approaches used by social scientists in their investigation of the urban scene. Study and discussions of the literature on urban affairs. Independent research projects on surrounding neighborhood area. Co-taught by sociology and economics departments. Identical with Sociology 320. Prerequisite: 6 semester hours of social science.

**Economics/Sociology 321.**  
SEMINAR IN URBAN STUDIES 3 credits

Intensive analysis of the city as a system of interrelated variables and institutional subsystems. Stresses current policies and practices in the social and economic options available to various urban interest groups. Independent research projects on the Philadelphia region. Co-taught by economics and sociology departments. Prerequisite: 6 semester hours of social science. Identical with Sociology 321.

**Economics 404.**  
PUBLIC FINANCE 3 credits

An analysis of the revenue and expenditure activities of government with particular emphasis on the rationale of this government activity, the method of financing, and the effects of fiscal policy on allocation, distribution, efficiency, equity and stability in the economy. Prerequisites: Economics 101, 102.

**Economics 411. (415)**

HISTORY OF ECONOMIC THOUGHT

3 credits

A detailed study of the leading economic concepts and schools of economic thought from the mercantilists up to and including Alfred Marshall.

**Economics 412. (416)**

CONTEMPORARY ECONOMIC SYSTEMS

3 credits

A continuation of Economics 415 until Keynesian economics has been treated; a history and analysis of socialist and Marxist thought culminating in a comparative study of the structure and function of the economies of the United States and the Soviet Union.

**Economics 431. (403)**

INTERNATIONAL ECONOMICS

3 credits

An introduction to the theory of international exchange, to natural and policy barriers to trade, to relations between developed and developing countries, and to international disequilibrium. Stress on the evolution of the international monetary system and selected current problems such as balance of payments, exchange standards, liquidity, and the role of international institutions. Prerequisites: Economics 101, 102.

**Economics 470-471. (420-421)**

SEMINAR

3-6 credits

A study of methodology in economics and of the techniques of preparing research reports. Second semester includes readings, discussions, and presentation of individual research reports. Recommended for majors who plan to attend graduate school.



## **EDUCATION**

GARY K. CLABAUGH, Ed.D., Chairman  
Associate Professors: Binkowski, Clabaugh, Wallace  
Assistant Professors: Bangs, Roehm  
Instructor: Feden  
Lecturers: Vaccara, Vogel

### **Required for Major in Education:**

- Education 201, 203, 301, 470.
- Psychology 101.
- Courses designated for associated majors (See advisers listed on page 36.)

During his freshman year, the student follows the program prescribed for the subject which he plans to teach. Application for admission into the teacher preparation program is normally made during the second semester of freshman year. Admission requires approval of the Teacher Preparation Admissions Committee. (Forms are available in the education department office.) The candidate must have and maintain an index of at least 2.00 for admission and retention in the program. All candidates must take the Minnesota Teacher Attitude Inventory upon entering the program and again upon its completion. The National Teacher Examinations are also required upon completion of the program.

In his last three years, the student follows the program designated by his area adviser and the chairman of the education department.

Before being accepted for the Professional Semester (Education 470), the student must have an index of 2.50 or better in his associated major (for example, Education-English) and receive approval of both the chairman of the associated major and of the education department chairman.

Students not preparing for teaching may elect courses in education with the approval of the education department.

### **Special Education**

The Pennsylvania Department of Education has recently granted approval for a program in special education. The program is designed to prepare teachers of the emotionally disturbed, the mentally retarded, and the physically handicapped. For further details, see Ms. Marilyn Roehm, Director of Special Education.

#### **Education 201. (301)**

THE SCHOOL: EDUCATION IN PHILOSOPHICAL AND  
CULTURAL PERSPECTIVE

3 credits

Analysis of relationship between organizational structure and educational policies of American schooling and the socio-economic system of modern society. Both semesters.

#### **Education 203. (302)**

THE CHILD: EDUCATIONAL PSYCHOLOGY

3 credits

Study of psychological principles as they apply to the pupil and the learning process. Requires participation in reading tutorials or some similar field experience in education. Both semesters. Prerequisite: Psychology 101.

#### **Education 301. (303)**

THE TEACHER: ANALYSIS OF TEACHING

3 credits

The study of teaching skills. Includes simulations, micro-teaching, interaction analysis. Prerequisites: field experience in education, Education 201, 203.

**Education 302.**

AUDIOVISUAL AIDS

3 credits

Utilization of audiovisual materials in an instructional setting. Training in use of overhead transparencies, 35 mm color slides, audio tapes, drymounting techniques, multi-media presentations, etc. Student production of video tape programs utilizing the College's television studio.

**Education 330. (420)**

THE EDUCATION OF URBAN POPULATIONS

3 credits

A multidisciplinary examination of the social, economic, political and demographic aspects of urban populations as they affect formal education. Team taught. Identical with Political Science 330 and Sociology 330.

**Education 470. (410)**

THE PROFESSIONAL SEMESTER

15 credits

Affords education majors specific and general preparation for student-teaching experiences. Comprises one full semester and embodies instruction in Special Methods of Teaching in various disciplines, direct application of Educational Media, methods and materials to teaching and ten to twelve weeks full-time assignment to classroom observation and teaching in selected secondary schools.

The Professional Semester requires the student to participate on a five day a week, full day schedule. Prerequisites: field experience in education, Education 201, 203, 301 and approval of the chairman of the associated major and the chairman of the education department.

**ENGLISH**

CHARLES V. KELLY, M.A., Chairman

Professors: Burke, Ellis, Kelly, Koch, Rodden

Associate Professors: Cunningham, Devlin, Doran, Fallon, Hannum, Keenan, Kleis, Lautz, Mollenhauer, Seydow, Sheekey

Assistant Professors: Butler, Carter, Eriksson, Foote, Knodt, MacLeod, McClatchy, McLaughlin, Musil, Newton, Rao, Thornton

Instructors: Millard, Molyneaux

Lecturers: Lyons, Westhead, Wilsbach

**Required for Major In English: 15 courses**

The English program is flexible and designed to be adaptable to the needs and career objectives of students. Before rostering his courses, therefore, the English major should consult with a departmental adviser to make sure that his program is likely both to achieve his objectives and meet departmental requirements. Generally students with the indicated career objectives should roster the following courses:

- Concentration in English as Liberal Arts Background:  
English 103; 201; 202; 221, 222; 324 or 325; and one course each from four of the following groups: (321 or 322) (323, 326, 327, 328) (329, 330) (341, 342) (311, 312, 313, 343); one course each from two of the following groups: (301, 302, 303, 304) (205, 206) (207, 305, 306) (401, 402) (471); three English electives.
- Concentration in English-Education:  
(10 courses) English 101, 205, 206 or 207; 221 and 222; two of the following: 103, 201, 202, 311, or 312; 341, 342, or 343; 301, 302, 303, or 304; 324 or 325; 2 English electives.
- Concentration in Speech and Drama:  
English 151-152; 251; 252; 253; 312. Two elementary (351, 352, 353 or 354) and two advanced courses (451, 452, 453, 454). One fine arts elective. English 455 or 456. Three English electives.

- Concentration in Writing:  
English 103; 201 or 202; 205; 311; 324 or 325; 401 or 402; 403; 3 courses from the following: 206, 207, 305, 306, or 353; Music 101; Art 101; Philosophy 301; 2 English electives.
- Concentration in English as Preparation for Graduate Study:  
English 103; 201; 202; 324 or 325; one course from each of the following groups: (321 or 322) (323, 326, or 327) (329 or 330) (341 or 342) (311, 312, 313, 343); 301, 302, 303, or 304; 401 or 402; 471 or Independent Research; 3 English electives.

## GENERAL EDUCATION

Fall

### **English 161. (201)**

THE EXPERIENCE OF LITERATURE

3 credits

An examination of selected fiction, poetry, and drama, and the way in which the form of a work interacts with its content. Imaginative literature will encourage the student to read with increased taste, perception, and pleasure. Emphasis on authors who have experimented significantly with form, including Sophocles, Shakespeare, Keats, Browning, Joyce, and T. S. Eliot. Short critical papers.

### **English 162. (202)**

FROM HERO TO ANTI-HERO

3 credits

An exploration of the changing concepts of heroism in western society from the classic ideal to the contemporary mistrust of man's capacity for heroism. Fiction, drama, and poetry to illustrate the heroic stance in confrontation with the supernatural realm, the collective social order, and the private will. Collateral readings and short critical papers.

### **English 163. (203)**

MODES OF INITIATION

3 credits

Fiction, poetry, and drama in which the young protagonist confronts a significant change in knowledge about the world or himself, leading to a more mature vision of life. Readings drawn from such authors as Joyce, Twain, Salinger, Hemingway, Dickens, Shakespeare, Shaw, among others. Short critical papers.

### **English 101.**

COMPOSITION

3 credits

Training in exposition and argumentation. Weekly themes.

### **English 103.**

READINGS IN FICTION

3 credits

Structural analysis of the narrative form. Both terms.

Spring

### **English 164. (204)**

MAJOR AUTHORS

3 credits

An examination in depth of the timeless appeal of five or six major figures who are pre-eminent in their mastery of the English language and of certain works which continue to attract and excite readers through the centuries. Figures selected from the following: Chaucer, Shakespeare, Donne, Milton, Swift, Keats, Tennyson, Whitman, Melville, Conrad, Eliot, Frost, and Miller. Critical papers.

### **English 165. (207)**

THE IMAGE OF MAN

3 credits

The attempt of the individual to cope with changing views of man's position in the universe. The crisis of the individual who has lost faith in traditional values, feels alienated, and is attempting to find alternative values. Poetry, drama, and fiction. Short critical papers.

### **English 166. (208)**

AMERICAN DREAMS, AMERICAN

NIGHTMARES

3 credits

A study of the literary expression of the pioneer "dreams" of progress and freedom, and the "nightmares" they became in the face of war, poverty, racism, and the industrial and cybernetic revolutions. The theme and its development will be examined in the works of representative American voices: Hawthorne, Melville, Twain, Fitzgerald, Ellison, Miller, Albee, Williams, etc. Critical papers.

**English 151-152. (105-106)**HISTORY OF THE THEATRE AND THE DEVELOPMENT OF THE  
DRAMATIC STRUCTURE

3-6 credits

A study of the development of the composite arts of theatre, and an analysis of the dramatic structure in representative plays. Fall term: origins to 1700. Spring term: 1700 to present. Required of students concentrating in speech and drama.

**English 201. (314)**

THE POEM IN ENGLISH

3 credits

A study of the uses of language in English poetry—meter, metaphor, symbol, and other linguistic features—and of the major conventional forms of English poetry. Both terms.

**English 202. (313)**

READINGS IN DRAMA

3 credits

Introduction to drama as an art form. Survey of the important dramas of England from the Middle Ages to 1900. Fall term.

**English 203. (433)**

RELIGIOUS ATTITUDES IN MODERN LITERATURE

3 credits

An examination of various cross-currents between religion and literature as found in representative modern texts. Man's search for ultimate meaning will be studied in such writers as Hesse, Kafka, Eliot, Beckett, and Ginsberg. An analysis of the various forms that religious experience takes (theological vs. literary); the relation between religious questions found in modern literature and those found in the traditional scriptures (the presence or absence of God, the moral dilemma, the freedom of man). Identical with Religion 201.

**English 205. (401)**

ADVANCED EXPOSITION

3 credits

Practice in confronting special writing problems of business, education, and other professions. Recommended for prospective teachers. Both terms.

**English 206. (344)**

FUNDAMENTALS OF JOURNALISM

3 credits

Survey of the mass media with emphasis on newspapers, radio, and television. Topics include: communication theory, reporting and interviewing techniques, newswriting, copy editing and headline writing, the editorial, the feature story, newspaper makeup and design, libel, and the responsibility of the press. Two hours lecture, one hour of field assignment weekly.

**English 207-305-306. (340-341-342)**

CREATIVE WRITING I, II, &amp; III

3 credits per term

Workshops in the writing of fiction and verse.

**English 221-222. (209-210)**

THE LITERATURE OF ENGLAND

3-6 credits

Survey course in English literature showing development in types and forms. Fall: Beowulf to Blake. Spring: since 1800.

**English 251. (212)**

FUNDAMENTALS OF THEATRE PRACTICE

3 credits

A lecture-laboratory course in stagecraft, lighting, and other skills associated with play production. Required of students concentrating in speech and drama.

<b>English 252. (214)</b>	ORAL INTERPRETATION OF PROSE AND POETRY	3 credits
Training of the speaking voice as it is involved in building a performance. Special emphasis on "reading out the meaning" of verse and prose selections. Required of students concentrating in speech and drama.		
<b>English 253. (216)</b>	ACTING I: VOICE AND BODY	3 credits
A laboratory course in the use of the player's instruments, vocal and physical; practical training in vocal production, singing; in body movement, dance. Required of students concentrating in speech and drama.		
<b>English 254. (319)</b>	ORAL COMMUNICATION	3 credits
Speech composition, audience psychology, and technique of delivery; emphasis on practical speaking experience. Fall term		
<b>English 255. (321)</b>	ADVANCED ORAL COMMUNICATION	3 credits
Oral reading, argumentation, and debate. Further practical experience. Prerequisite: English 254. Spring term.		
<b>English 291-292. (219-220)</b>	GREAT BOOKS IN ENGLISH	3-6 credits
Honors course. Reading of major works in their entirety, in chronological sequence, linked by discussion of major periods and movements. Short critical papers.		
<b>English 301. (318)</b>	HISTORY OF THE ENGLISH LANGUAGE	3 credits
Origins and the development of modern English from Old and Middle English; dialects and dialect geography. Fall term.		
<b>English 302. (306)</b>	INTRODUCTION TO DESCRIPTIVE LINGUISTICS	3 credits
Nature of language; modern methods of linguistic analysis. Social and cultural background of language. Fall term.		
<b>English 303. (308)</b>	Special Topics in Linguistics: URBAN DIALECTS: A SOCIO- AND PSYCHOLINGUISTIC PERSPECTIVE	3 credits
An examination of selected urban dialects as they relate to social stratification and group cohesiveness. Study of special problems these dialects may present for language arts instruction. Spring term.		
<b>English 304. (355)</b>	THE GRAMMARS OF ENGLISH	3 credits
A comparison of traditional, structural, and transformational-generative approaches to English grammar, both in theory and as these approaches are applied in selected elementary and secondary school grammar texts. Spring term.		
<b>English 311. (322)</b>	CONTEMPORARY BRITISH AND AMERICAN NOVEL	3 credits
A study of the major novelists of the present century in England and America. Structure and trends. Both terms.		

<b>English 312. (416)</b> READINGS IN MODERN DRAMA	3 credits
A study of selected plays of the modern theatre from Ibsen to Ionesco, with an emphasis on the forces which have shaped the drama of England, Ireland, and America. Spring term.	
<b>English 313. (420)</b> CONTEMPORARY POETRY	3 credits
An examination of representative 20th century poetic practice in English. Fall term.	
<b>English 321. (360)</b> MIDDLE ENGLISH LITERATURE	3 credits
A survey of English literature of the 12th through 15th centuries, exclusive of Chaucer. Fall term.	
<b>English 322. (307)</b> CHAUCER	3 credits
Readings in Chaucer, especially <i>Troilus and Criseyde</i> and <i>The Canterbury Tales</i> . Spring term.	
<b>English 323. (361)</b> RENAISSANCE LITERATURE	3 credits
Selected readings in the literature of the English Renaissance. Particular attention to: More, <i>Utopia</i> ; Spenser, <i>Faerie Queen</i> ; Marlowe, <i>Hero and Leander</i> ; Shakespeare, "Venus and Adonis," <i>Troilus and Cressida</i> ; Browne, <i>Urn Burial</i> ; Milton, <i>Paradise Lost</i> . Spring term.	
<b>English 324. (328)</b> SHAKESPEARE	3 credits
Reading of a wide selection of plays and sonnets with a concern for Shakespeare's artistic development. Fall term.	
<b>English 325. (329)</b> SHAKESPEARE	3 credits
Intensive study of selected poems and plays, including tragedies, comedies, and chronicles. Spring term.	
<b>English 326. (375)</b> MILTON	3 credits
A study of the form and content of Milton's poetry, supplemented by student research on his prose and on the ideas and values of his age. Fall term.	
<b>English 327. (362)</b> ENGLISH LITERATURE OF THE RESTORATION AND 18th CENTURY	3 credits
The historical approach will include the chief figures: Dryden, Pope, Swift, Addison and Steele, Johnson, and their more outstanding contemporaries. Fall term.	
<b>English 328. (315)</b> READINGS IN THE NOVEL	3 credits
Historical development of the novel in English. Both terms.	
<b>English 329. (363)</b> ENGLISH LITERATURE OF THE ROMANTIC PERIOD	3 credits
An historical survey of the lyric and narrative poets Coleridge, Wordsworth, Byron, Shelley, Keats, their practice and theory. Pertinent references to their contemporaries. Fall term.	

<b>English 330. (364)</b>	ENGLISH LITERATURE OF THE VICTORIAN PERIOD	3 credits
The chief literary figures of the period—Tennyson, Arnold, Browning, Hopkins, Carlyle, Newman, Ruskin—and their contemporaries placed against their milieu. Lyric and essay stressed. Spring term.		
<b>English 341. (365)</b>	AMERICAN LITERATURE (to 1860)	3 credits
Literary historical movements of the period; major figures include Irving, Poe, Hawthorne, Melville, Emerson, Thoreau, and Whitman. Fall term.		
<b>English 342. (366)</b>	AMERICAN LITERATURE (1860-1920)	3 credits
Rise of realism; naturalism; the "new poetry." Figures include Twain, Dickinson, Howells, James, Crane, Dreiser, and Robinson. Both terms.		
<b>English 343. (367)</b>	AMERICAN LITERATURE (since 1920)	3 credits
Survey of developments in poetry, fiction, and criticism; figures include Hemingway, Fitzgerald, Faulkner, Frost, Eliot, Steinbeck, and selected writers of the 1950's and 1960's. Spring term.		
<b>English 351. (302)</b>	ELEMENTARY ACTING	3 credits
An introduction to the various methods by which an actor prepares. Prerequisites: English 214, 216 or permission of Mr. Rodden. Fall term.		
<b>English 352. (303)</b>	ELEMENTARY DIRECTION	3 credits
Consideration of the evolution of the director's function in the theatre; study of the means by which a director prepares and executes his function. Direction of one-act plays, both traditional and experimental. Fall term.		
<b>English 353. (304)</b>	ELEMENTARY PLAYWRITING	3 credits
Investigation of the special role of the theatrical narrator with attention to problems of exposition, dialogue, and narration in the theatre. Completion of a one-act play required. Spring term.		
<b>English 354. (305)</b>	ELEMENTARY DESIGN	3 credits
Principles and skills in both scenic and costume design. Historical study of the role of the designer in theatre. Completion of a design project. Spring term.		
<b>English 401. (405)</b>	LITERARY THEORY AND CRITICISM	3 credits
An introduction to the theory of literary structure and literary value; exercises in the description and evaluation of literary works; reports on assigned readings. Fall term.		
<b>English 402. (406)</b>	HISTORY OF LITERARY CRITICISM	3 credits
Readings and discussion of major critical texts in historical setting. Short critical papers. Spring term.		

<b>English 403. (349)</b>		
THE FILM AS ART		3 credits
Study of selected films and discussion of cinematographic techniques involved. Spring term.		
<b>English 451.</b>		
ADVANCED ACTING		3 credits
<b>English 452.</b>		
ADVANCED DIRECTION		3 credits
<b>English 453.</b>		
ADVANCED PLAYWRITING		3 credits
<b>English 454.</b>		
ADVANCED DESIGN		3 credits
<b>English 455-456.</b>		
THEATRE NOW: A CONTEMPORARY VIEW		3-6 credits
<b>English 471. (412)</b>		
SPECIAL LITERARY TOPICS		3 credits

Concentration on one particular aspect of literature. Subject matter will vary from term to term.

## FINE ARTS

GEORGE K. DIEHL, M.A., Chairman  
Assistant Professors: Diehl, Hanes, Ridington, White  
Lecturers: Donald, Hoyt, Lang

### Required for Major in Art History 12 courses

- Art 211-212, 311, 312, 313, 315, 411, 412
- Any 2 studio courses
- 2 art history electives

### Required for Major in Music: 13 courses

- Music 111-112, 211-212, 311, 312, 313, 314-315, 411, 412, 413, 414

## ART

### Art 101. (205)

#### ELEMENTS OF ART

3 credits

Analysis of the elements of painting, sculpture, and architecture; application of principles to several major artists and to the major stylistic periods.

60

## ART HISTORY

### Art 204. (221)

#### HISTORY OF ARCHITECTURE

3 credits

Chronological study of the growth and development of the major architectural styles in Western Europe, their interrelation and the manner in which they reflect the social needs of the times.

### Art 206. (222)

#### PAINTING FROM DAVID TO VAN GOGH

3 credits

Study of the stylistic changes and examination of the methods and subject-matter of pictorial representation from the end of the 18th century to the end of the 19th century.

### Art 207. (224)

#### ART OF THE FAR EAST

3 credits

Development and growth of the visual arts in the countries of the Far East from prehistoric times to the present. Consideration of derivations and movements of art styles among the Asian countries, as well as the artistic influences between the East and the West.

### Art 208. (223)

#### ART OF THE ASIAN SUB-CONTINENT

3 credits

Development and growth of the visual arts in the Asian sub-continent from prehistoric times to the present. Consideration of derivations and movements of art styles among the Asian countries, as well as of the artistic influences between the East and the West.

### Art 209. (231)

#### AMERICAN ART

3 credits

Chronological survey of the painting, sculpture, architecture, and the minor arts in America from Colonial times to the present. Particular emphasis on monuments in the Philadelphia area with field trips to include the du Pont Winterthur Museum.

<b>Art 211-212. (329-330)</b>		
HISTORY OF ART		3-6 credits
Chronological survey of the painting, sculpture, architecture, and minor arts of Western Civilization. Determination and recognition of styles and stylistic development through concentrated study of the outstanding monuments of each epoch. Fall term: beginnings to 1500. Spring term: 1500 to present.		
<b>Art 311.</b>		
ANCIENT ART		3 credits
Study of selected early civilizations which contributed to the growth of western tradition in the arts. Concentrated study of the artistic development of the major Mediterranean cultures, terminating with the early Christian era of the fourth century.		
<b>Art 312. (314)</b>		
MEDIEVAL ART		3 credits
Chronological study of the eastern and western aspects of Christian art from the late Imperial Roman period to the decline of the Gothic tradition in the 15th century.		
<b>Art 313. (315)</b>		
RENAISSANCE ART		3 credits
A study of the phenomenon of the Renaissance from its Ducento inception through 16th-century Mannerism in both Southern and Northern Europe. Certain major personalities will be singled out for concentrated study.		
<b>Art 315. (317)</b>		
BAROQUE AND ROCOCO ART		3 credits
A study of styles, trends and major forces in the arts of Western Europe in the 17th and 18th centuries.		
<b>Art 377. (351)</b>		
HISTORY OF GRAPHIC ART		3 credits
Chronological examination of graphic art from its inception in the 15th century to the present. Examination of original prints from the resources of the National Gallery of Art, Lessing J. Rosenwald collection. Prerequisites: permission of the instructor. Written research project.		
<b>Art 411. (319)</b>		
NINETEENTH CENTURY ART		3 credits
A study of the major artistic forces in selected European countries and their reaction to the Social and Industrial Revolutions. The course will include an investigation of the effect of these developments upon artistic forms in the United States.		
<b>Art 412. (320)</b>		
TWENTIETH CENTURY ART		3 credits
A tracing of the divergent influences upon contemporary art in Europe and America from the late 19th century beginnings to the immediate present.		
<b>Art 480. (400)</b>		
INDEPENDENT STUDY		3 credits
Intensive study in a specific area under individual guidance. Open only to art history majors. Prerequisites: 3.00 average or better, recommendations of instructor, approval of department chairman.		

## **STUDIO COURSES**

### **Art 350. (301)**

OIL PAINTING

3 credits

Introduction to basic techniques of sketching and painting. Preparation of materials and instruction in perspective. Exercises in indoor and outdoor painting. May be repeated for credit.

### **Art 352.**

PRINT MAKING

3 credits

Introduction to basic print processes. Relief and intaglio printing and lithography. May be repeated for credit.

## **MUSIC**

### **Music 101. (205)**

MUSIC: THE ART OF LISTENING

3 credits

Designed to develop and refine musical perception and systematically to explore the fundamentals of music and their interrelationships. Includes historical overview.

## **MUSIC HISTORY**

### **Music 102. (200)**

AMERICAN MUSIC

3 credits

A study of the history of music in America from the colonial period to the present.

### **Music 111-112. (101-102)**

INTRODUCTION TO THE HISTORY OF MUSIC

3-6 credits

After a brief introduction to the fundamentals of music, the course proceeds to a comprehensive survey of the principal styles of Western music. Fall term: from classical antiquity to 1750. Spring term: from 1750 to the present.

### **Music 201.**

A SHORT HISTORY OF OPERA

3 credits

Music for the operatic stage from its inception to the contemporary period. Concentrated study of selected works representing the stylistic and historical development of opera.

### **Music 301. (304)**

BACH AND HANDEL

3 credits

Their historical importance in the musical developments in Germany and England in the baroque era. A study of representative vocal, instrumental, and chamber works.

### **Music 311. (301)**

MUSIC OF THE CLASSIC PERIOD

3 credits

A study of Western music from the middle of the 18th century to the death of Beethoven. The rise and development of the classical style with special emphasis upon the contributions of Haydn, Mozart, and Beethoven.

### **Music 312. (302)**

MUSIC OF THE ROMANTIC PERIOD

3 credits

A study of 19th-century developments in music. The symphonic poem, art-song, and music-drama. Expansion of instrumental technique; development of orchestral and chamber music forms; growth of nationalism.

<b>Music 313. (303)</b>	MUSIC OF THE TWENTIETH CENTURY	3 credits
The emergence of new developments in musical composition in the 20th century. Examination of techniques and styles from impressionism to electronic music.		
<b>Music 411. (401)</b>	MEDIEVAL AND EARLY RENAISSANCE MUSIC	3 credits
The evolution of sacred and secular music from the early Christian church to about 1500. The development of polyphony from its beginning to the work of Josquin Desprez.		
<b>Music 412. (402)</b>	LATE RENAISSANCE AND BAROQUE MUSIC	3 credits
An examination of musical developments from about 1500 to the time of Bach. The great periods of vocal music, the creation of new forms and the development of dramatic and instrumental music.		
<b>THEORY and COMPOSITION</b>		
<b>Music 211-212. (207-208)</b>	FUNDAMENTALS OF MUSIC THEORY	3-6 credits
Intensive training in the basic theoretical concepts of music. Staff notation. Scales, intervals, chords and their resulting linear-harmonic complexes. Fundamentals of rhythm. Problems in melodic, harmonic, and contrapuntal techniques in their relation to texture and form. Analysis of selected works.		63
<b>Music 314-315. (309-310)</b>	HARMONY	3-6 credits
Fall term: Introduction to the basic elements of tonal composition. Analysis and practice. Spring term: An exploration of a wider range of harmonic resources. Analysis and practice.		
<b>Music 401. (405)</b>	ADVANCED THEORY AND COMPOSITION	3 credits
An examination of the theoretical foundations and principles of more complex musical structures. Analysis and practice.		
<b>Music 402. (406)</b>	FREE COMPOSITION	3 credits
Creative projects for students prepared for work in original composition. Prerequisite: permission of instructor.		
<b>Music 413. (403)</b>	COUNTERPOINT	3 credits
Principles and techniques of linear writing. Introduction to canon and fugue. Exercises in construction on progressive levels.		
<b>Music 414. (404)</b>	ORCHESTRATION	3 credits
A study of the properties, capacities, and functions of orchestral instruments and voices. Analysis of scores and practices of orchestration.		

## **INDEPENDENT STUDY**

**Music 480. (407)**

**INDEPENDENT STUDY**

3 credits

May be taken by students concentrating in either history or theory for the study of specialized topics from 1600 to the present. Prerequisites: permission of instructor and approval of department chairman.

## **APPLIED MUSIC**

**Music 010. (103)**

**PIANO**

No credit

Private piano instruction available from concert-pianist Edna Bockstein. Beginners/ Advanced. Practice pianos on campus. Apply to fine arts department.



## **FOREIGN LANGUAGES AND LITERATURES**

BERNHARDT G. BLUMENTHAL, Ph.D., Chairman

Professors: Bernian, B. Blumenthal, Boudreau

Associate Professors: Brownstein, DiMarco, McCann,

Moran, Perfecky, Sapone, Rudnyzky

Assistant Professors: D. Blumenthal, Dixon,

Joseph, Mall, Morocco

Instructor: Angerosa

Director of Language Laboratory: Ronald Fisher

### **CLASSICAL LANGUAGES**

#### **Required for Major in Classical Languages: 14 courses**

- 10 courses in Latin
- 4 courses in Greek

#### **GREEK**

##### **Greek 101-102.**

ELEMENTARY GREEK

3-6 credits

An introductory study of forms and syntax; includes reading the translation exercises and frequent practice in prose composition.

##### **Greek 201-202. (202-204)**

INTERMEDIATE GREEK

65

Review of elementary grammar; readings of selected prose and poetry.

##### **Greek 301. (304)**

HOMER

3 credits

Selections from the *Iliad* or *Odyssey*. Study of the epic meter and style.

##### **Greek 302. (312)**

LYRIC POETRY

3 credits

The lyric poets from Archilocus to Theocritus; analysis of the meters; special emphasis on Pindar's odes.

##### **Greek 303. (305)**

THE NEW TESTAMENT

3 credits

Selected passages; special attention to the forms peculiar to New Testament Greek. May be repeated for credit.

##### **Greek 402. (407)**

PLATO

3 credits

Selections from the writings of Plato with special attention to the syntax; Platonic philosophy and contemporary life in Athens.

##### **Greek 403. (408)**

DRAMA

3 credits

Selections from the repertory of Greek comedy or tragedy; attention to the subsequent influence of this genre on world literature. May be repeated for credit.

#### **LATIN**

##### **Latin 101-102.**

ELEMENTARY LATIN

3-6 credits

Thorough grounding in forms and vocabulary.

<b>Latin 201-202. (202-204)</b>		3-6 credits
INTERMEDIATE LATIN		
Review of elementary grammar; readings of selected prose and poetry.		
<b>Latin 205. (308)</b>		3 credits
PROSE COMPOSITION		
A study of Latin syntax, with practice in writing Latin of graded difficulty.		
<b>Latin 301. (309)</b>		3 credits
CICERO		
The works to be read will depend on the interests of the class.		
<b>Latin 302. (310)</b>		3 credits
LIVY AND ROMAN HISTORIOGRAPHY		
Selected passages of Livy's <i>History of Rome</i> ; study of Roman historical theory.		
<b>Latin 303. (312)</b>		3 credits
HORACE AND LATIN LYRIC POETRY		
Study of the Horatian Ode; comparison with other Latin lyric poets.		
<b>Latin 304. (314)</b>		3 credits
LATIN POETRY		
Selections from one or several of the Roman poets. Readings may be chosen from works of: Vergil, Catullus, Lucretius, Tibullus, Propertius, Martial, Ovid, Horace, Juvenal, and Persius. May be repeated for credit.		
<b>Latin 402. (415)</b>		3 credits
PATRISTIC LATIN		
Selections from the principal Latin fathers. A brief survey of the field of patrology and its influence on the Christian way of life.		
<b>Latin 403. (416)</b>		3 credits
MEDIEVAL LATIN		
Selections from the various writers from the fifth to the thirteenth centuries of the Christian era. A study of changes in Latin forms and syntax and in the meaning of words; relations of medieval Latin to the vernaculars.		
<b>Latin 404. (413)</b>		3 credits
ROMAN COMEDY		
Selected plays of Plautus and Terence will be read.		
<b>Latin 405. (420)</b>		3 credits
LATIN INSCRIPTIONS		
A study of Roman private life as illustrated by a wide variety of inscriptions. A survey will be made of the field of epigraphy and of modern techniques used.		

## RELATED STUDIES

<b>Classics 211.</b>		3 credits
CLASSICAL MYTHOLOGY		
A study of the legends of Greece and Rome: what they are, how they have survived, their value to us. The legend of Troy emphasized. Audio-visual presentations, discussions, and research. All readings in English translation.		
<b>Classics 311.</b>		3 credits
GREEK CLASSICS IN ENGLISH		
A detailed study of the literary history of Greece; significant Greek classics read and discussed. Knowledge of Greek not required. Open to upperclassmen who desire a cultural course of this nature.		



<b>French 302. (306)</b>	ADVANCED LANGUAGE AND STYLE	3 credits
Continuation of French 301 with mounting stress on refinement of phrase and oral delivery.		
<b>French 303.</b>	ADVANCED CONVERSATION	3 credits
Intensive oral training aimed at providing students with varied experiences in communicating in French while improving their pronunciation, intonation and fluency.		
<b>French 311. (308)</b>	SURVEY OF LITERATURE I	3 credits
Readings and discussions of selected literary works from the beginnings to 1800.		
<b>French 312. (309)</b>	SURVEY OF LITERATURE II	3 credits
Readings and discussions of selected literary works from 1800 to the present.		
<b>French 321. (311)</b>	CIVILIZATION I	3 credits
A survey of the political, social, intellectual, scientific and artistic development of France from earliest times to 1900. Lectures and readings serve as a basis for class discussions in French.		
<b>French 322. (312)</b>	CIVILIZATION II	3 credits
A survey of the political, economic, social, religious, and cultural structures of contemporary France. Lectures and readings serve as a basis for class discussions in French.		
<b>French 401. (405)</b>	OLD FRENCH LANGUAGE AND LITERATURE	3 credits
The history of the formation of the French language, with special attention to the phonological and morphological development from Latin. Literary study, using texts in the original, of Alexis, Roland, Guigemar, Aucassin, Vergi and the poetry of Villon.		
<b>French 411. (413)</b>	SIXTEENTH-CENTURY LITERATURE	3 credits
Readings and reports on works of representative authors of the 16th century.		
<b>French 425. (430)</b>	CLASSICAL THEATRE	3 credits
A study of the plays of Corneille, Moliere and Racine.		
<b>French 431. (414)</b>	EIGHTEENTH-CENTURY LITERATURE	3 credits
Readings and reports on works of representative authors of the 18th century.		
<b>French 447. (425)</b>	NINETEENTH-CENTURY NOVEL	3 credits
A study of some of the major novels of the 19th century, including works by Constant, Stendhal, Balzac, Flaubert, Zola and Huysmans.		
<b>French 453. (421)</b>	MODERN POETRY	3 credits
A study of French poetry from Nerval and Baudelaire through the symbolists and surrealists to the present.		

**French 455. (420)**  
MODERN THEATRE

3 credits

A study of the plays of Claudel, Cocteau, Giraudoux, Anouilh, Montherlant, Sartre, Camus, Beckett, Ionesco and Genet.

**French 457. (402)**  
MODERN NOVEL

3 credits

A study of the novels of Proust, Gide, Bernanos, Malraux, Sartre, Camus, and Robbe-Grillet.

## GERMAN

**Required for Major in German:** 14 courses

- German 431, 451, 401, 471 or 472
- 6 electives in German
- 4 courses in second language

## GENERAL EDUCATION

**German 161. (200)**

THE GERMAN MIND: MODERN GERMAN LITERATURE IN ENGLISH TRANSLATION

3 credits

An introduction to selected works of prominent writers of modern Germany. A study of their attempt to restore values to life in a declining society between two world wars. Readings from: Brecht, Hesse, Kafka, Mann, and Rilke. Texts in English translation. Short critical papers. Fall term.

**German 162. (201)**

THE GERMAN DILEMMA: CONTEMPORARY GERMAN LITERATURE IN ENGLISH TRANSLATION

3 credits

A study of the works of contemporary writers in postwar Germany. Emphasis on the author's search for authenticity in an affluent society. Readings from: Durrenmatt, Frisch, Grass, and Weiss. Texts in English translation. Short critical papers. Spring term.

69

**German 101-102.**

ELEMENTARY GERMAN

3-6 credits

An introductory study of the phonetics and grammar of the language including graded work in reading and composition. Weekly audio-oral laboratory assignments.

**German 201. (202)**

REVIEW GRAMMAR AND COMPOSITION

3 credits

Grammatical review, exercise in composition, and selected readings. Weekly audio-oral laboratory assignments.

**German 202. (204)**

INTERMEDIATE READINGS

3 credits

Selected readings of moderate difficulty from writers of the 18th, 19th, and 20th centuries with a view to introducing the student to the literature and civilization of the country.

**German 209. (306)**

TRANSLATION OF SCIENTIFIC AND TECHNICAL GERMAN

3 credits

Translation of selected scientific and technical articles from contemporary journals in bio-medicine, chemistry, earth science, and physics. Emphasis on the practical aspects of translating; training in use of specialized dictionaries and reference sources. Texts selected by student in conjunction with adviser in major field.

<b>German 301-302. (310-311)</b>	ADVANCED ORAL PRACTICE	3-6 credits
Oral practice for the development of skill in conversation. Special attention to remedial work in pronunciation and diction.		
<b>German 311-312. (304-305)</b>	THEMES IN GERMAN LITERATURE	3-6 credits
Major themes from medieval to modern times (love, death, suffering, political and social involvement). Practice in conversation and composition. May be repeated for credit.		
<b>German 401. (405)</b>	HISTORY OF THE GERMAN LANGUAGE	3 credits
The German language from its beginning to the present; particularly, the development of sounds, vocabulary and the formation of standard High German.		
<b>German 402. (410)</b>	OLD HIGH GERMAN	3 credits
Descriptive and historical analysis of Old High German texts with their dialect features.		
<b>German 403. (411)</b>	MIDDLE HIGH GERMAN	3 credits
Descriptive and historical analysis of Middle High German texts. Readings in Middle High German literature.		
<b>German 405. (313)</b>	MEDIEVAL LITERATURE	3 credits
Study and discussion of German literature from its beginnings to the end of the medieval period.		
<b>German 411. (315)</b>	LITERATURE OF THE 15th AND 16th CENTURIES	3 credits
Study and discussion of the literature of the 15th and 16th centuries from the end of the medieval period to the beginnings of the baroque.		
<b>German 421. (319)</b>	LITERATURE OF THE 17th AND 18th CENTURIES	3 credits
Study and discussion of the literature of the 17th and 18th centuries excluding the works of Goethe and Schiller.		
<b>German 431. (320)</b>	THE CLASSICAL AGE	3 credits
Study and discussion of the literature of the classical age with special attention to the works of Goethe and Schiller.		
<b>German 441. (401)</b>	LITERATURE OF THE 19th CENTURY	3 credits
Study and discussion of the literature of romanticism, realism, and naturalism.		
<b>German 451. (402)</b>	LITERATURE OF THE 20th CENTURY	3 credits
Study and discussion of modern German literature from 1880 to the present.		

**German 471-472. (420-421)**

SEMINAR

3-6 credits

Topics of investigation vary from semester to semester. Readings, reports, and discussion in a selected genre (novel, drama, lyric, short story). Seminar paper.

**ITALIAN****Required for Major in Italian: 14 courses**

- Italian 312, 451, 471 or 472 or 473
- 6 electives in Italian
- 4 courses in second language

**Italian 101-102.**

ELEMENTARY ITALIAN

3-6 credits

An introductory study of the phonetics and grammar of the language including graded work in reading and composition. Intended for those who are beginning the study of Italian. One required hour per week in language laboratory.

**Italian 201. (202)**

REVIEW GRAMMAR AND COMPOSITION

3 credits

Grammatical review, exercises in composition and selected readings.

**Italian 202. (204)**

INTERMEDIATE READINGS

3 credits

Selected readings of intermediate difficulty from writers of the 19th and 20th centuries with a view to introducing the student to the literature and civilization of the country.

**Italian 301. (305)**

ADVANCED GRAMMAR AND COMPOSITION

3 credits

Training in the use of correct idiomatic Italian and in the practical application of grammatical principles; exercises in written expression and in translating standard English prose into Italian.

**Italian 302. (306)**

STYLISTICS

3 credits

Includes intensive oral exercises with a view towards improving the student's pronunciation and increasing his active vocabulary. Students make frequent use of audio aids.

**Italian 311. (308)**

SURVEY OF ITALIAN LITERATURE I

3 credits

Designed to provide a fundamental knowledge of Italian literature from its origins to the 16th century, with particular stress on Dante, Petrarcha and Boccaccio, and their contribution to Italian humanism and the Renaissance.

<b>Italian 312. (309)</b>	SURVEY OF ITALIAN LITERATURE II	3 credits
A comprehensive study of Italian literary currents from the “Marinismo” to D’Annunzio and Pirandello through neoclassicism, romanticism, and futurism, with comparative references to European literature.		
<b>Italian 331. (413)</b>	READING LIST I	3 credits
Gives an acquaintance with excerpts of Italian writers including the poets of the 12th and 13th centuries, such as Cino da Pistoia, Guido Guinizelli, Cielo D’Alcamo, Jacopo da Lentini, Guido Cavalcanti, Dante Alighieri, Francesco Petrarca, Angelo Polizano, Lorenzo de Medici, and others.		
<b>Italian 332. (414)</b>	READING LIST II	3 credits
Italian poems of knighthood, with particular emphasis on <i>L’Orlando Furioso</i> by Ludovico Ariosto and <i>La Gerusalemme Liberata</i> by Torquato Tasso; reference to the antecedents of this literary genre.		
<b>Italian 401. (405)</b>	HISTORY OF THE ITALIAN LANGUAGE	3 credits
Deals with the Italian language in its origins in the 7th century up to modern times. By means of a very few philologic and glottologic rules, the student will acquire a knowledge of the origins and transformation of Italian from Vulgar Latin, in chronological progression.		
<b>Italian 425. (423)</b>	HISTORY OF THE ITALIAN THEATRE	3 credits
A chronological survey on Italian theatre, from the religious medieval representations in the open to modern realistic drama. Special attention to Alfieri’s tragedies and their influence on Italian “Risorgimento.”		
<b>Italian 451. (402)</b>	MODERN AUTHORS	3 credits
Includes a survey of Italian narrative and poetic production in the late 19th century and in the first half of the 20th century.		
<b>Italian 471. (422)</b>	DANTE	3 credits
A comprehensive study of Dante’s <i>Divine Comedy</i> , viewed in its different aspects: an exciting adventure story, an exposition of the poet’s political action and feelings, a love story, a compendium of history, science and theology, and, finally, a program of political organization.		
<b>Italian 472. (421)</b>	SEMINAR: LEOPARDI	3 credits
A study of the works of Leopardi including “Le Operette Morali,” “I Canti,” and “I Pensieri.”		
<b>Italian 473. (420)</b>	SEMINAR: MANZONI	3 credits
A comprehensive study of the author’s major work and Italy’s greatest novel, <i>I Promessi Sposi</i> ; consideration of the author’s two historic poems, “L’Adelchi” and “Il Conte di Carmagnola.”		

## RUSSIAN

### **Required for Major in Russian:** 14 courses

- Russian 301-302 or 303-304, 401-402, 471-472
- 4 Russian electives
- 4 courses in second language

#### **Russian 101-102.**

ELEMENTARY RUSSIAN

3-6 credits

Audio-lingual approach; regular exercises in language laboratory stress fundamental structural features of the contemporary spoken language.

#### **Russian 201-202. (202-204)**

INTERMEDIATE RUSSIAN

3-6 credits

Second part of two year program based on audio-lingual principles. Continued emphasis on language laboratory work. Introduction to literature and civilization.

#### **Russian 301-302. (304-305)**

ADVANCED GRAMMAR AND CONVERSATION

3-6 credits

Advanced grammar exercises and conversation. Reading of a Russian newspaper.

#### **Russian 303-304. (310-311)**

ADVANCED READINGS AND COMPOSITION

3-6 credits

Selected readings of 19th and 20th century Russian prose and verse. Intensive exercises in translating standard English prose into Russian.

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#### **Russian 401. (405)**

HISTORY OF THE RUSSIAN LANGUAGE

3 credits

Historical background for an understanding of the phonology, morphology, syntax, and vocabulary of modern Russian.

#### **Russian 402. (406)**

OLD RUS' LITERATURE

3 credits

Selected readings from the epic, annalistic, and hagiographic literature from the 11th to the 17th centuries with special emphasis on Igor's Tale and the Primary, Kievan, and Galician-Volynian chronicles. The beginnings of fiction.

#### **Russian 441-442. (431-432)**

RUSSIAN LITERATURE OF THE 19th CENTURY

3-6 credits

Romanticism and realism in Russian literature. Readings from Pushkin, Griboedov, Lermontov, Gogol, Turgenev, Ostrovsky, Dostoevsky, L. Tolstoy, Saltykov-Shchedrin, Leskov, Chekhov, Kuprin, Bunin, and Andreev.

#### **Russian 451-452. (402-403)**

SOVIET LITERATURE

3-6 credits

Socialist realism as a doctrine of art and literature in the Soviet Union. Readings from Gorky, Mayakovsky, Babel, Olesha, Leonov, Zamyatin, Zoshchenko, Sholokhov, Ilf and Petrov, Simonov, Pasternak, Yevtushenko, Solzhenitsyn and others.

## **RELATED STUDIES:**

#### **Slavic 403.**

UKRAINIAN

3 credits

The study of the phonology, morphology, syntax, and vocabulary of a second Eastern Slavic language, Ukrainian, by noting the differences that exist between it and Russian.

**Slavic 404.**  
POLISH 3 credits

The study of the phonology, morphology, syntax, and vocabulary of a Western Slavic language, Polish, by noting the differences that exist between Polish, Russian, and Ukrainian.

## SPANISH

**Required for Major in Spanish:** 14 courses

- Spanish 311-312
- 8 Spanish electives
- 4 courses in second language

### GENERAL EDUCATION

#### Spanish 161. (200)

REALITY VS. ILLUSION: HISPANIC  
LITERATURE IN ENGLISH TRANSLATION 3 credits

Varying facets of a persistent theme of human existence evolve in readings from Lazarillo, and Don Quixote, and selections by Calderon, Cortazar, Borges, and Yañez. Texts in English translation. Short critical papers. Fall term.

#### Spanish 162. (201)

LIFE AND DEATH: HISPANIC LITERATURE IN  
ENGLISH TRANSLATION 3 credits

A persistent theme of existentialism is revealed in Celestina and selections by Unamuno, Lorca, Ortega, Fuentes, Paz, and Neruda. Texts in English translation. Short critical papers. Spring term.

#### Spanish 101-102.

ELEMENTARY SPANISH 3-6 credits

Designed to provide a fundamental capacity in conversation; audio-oral method employed. Grammar is presented strictly on a functional basis to facilitate speech and comprehension. One required hour per week in the language laboratory.

#### Spanish 201. (202)

REVIEW GRAMMAR AND COMPOSITION 3 credits

Grammatical review, exercises in composition and selected readings. One required hour per week in the language laboratory.

#### Spanish 202. (204)

INTERMEDIATE READINGS 3 credits

Selected readings of intermediate difficulty from writers of the 19th and 20th centuries with a view to introducing the student to the literature and civilization of the country. One required hour per week in the language laboratory.

#### Spanish 301. (304)

ADVANCED CONVERSATION 3 credits

Includes intensive oral exercises with a view towards improving the student's pronunciation and increasing his active vocabulary. Students make frequent use of audio aids.

<b>Spanish 302. (305)</b>	ADVANCED GRAMMAR AND COMPOSITION	3 credits
Training in the use of correct idiomatic Spanish and in the practical application of grammatical principles; intensive exercises in written expression.		
<b>Spanish 307. (306)</b>	COMMERCIAL SPANISH	3 credits
Intended to acquaint the student with commercial Spanish terminology combined with lectures, readings and translations of business letters. Introduction of new vocabulary used in the business world with emphasis on Spanish American idiomatic expressions.		
<b>Spanish 311. (308)</b>	SURVEY OF SPANISH LITERATURE I	3 credits
An introduction to the study of Spanish literature which combines reading and discussion of the earliest works from the Middle Ages to the masters of drama of the Golden Age.		
<b>Spanish 312. (309)</b>	SURVEY OF SPANISH LITERATURE II	3 credits
A course in readings and discussions of the authors from the 18th century to the contemporary period, including the neoclassic and romantic eras, and the modern novelists and poets.		
<b>Spanish 313. (310)</b>	SURVEY OF SPANISH AMERICAN LITERATURE	3 credits
Reading and discussion of works from the colonial period to the 20th century.		
<b>Spanish 321. (300)</b>	SURVEY OF SPANISH CIVILIZATION	3 credits
A cultural and historic study of Spain's past, examining the effects of Rome and Islam, the period of Spanish domination and later decline, and the status of present-day Spain.		
<b>Spanish 322. (301)</b>	SURVEY OF SPANISH AMERICAN CIVILIZATION	3 credits
A cultural and historic presentation of the diversity of Latin America from the Aztecs and Incas to the Conquest, the viceroyalties, and the establishment of independent nations; course concludes with a thorough study of today's Latin America.		
<b>Spanish 401. (405)</b>	HISTORY OF THE SPANISH LANGUAGE	3 credits
Study of the formation of the language, its evolution and phonetic changes from Latin to the present modern pronunciations. Reading and discussion of the early Spanish texts and the development of the language in the early period.		
<b>Spanish 405. (422)</b>	LITERATURE OF THE MIDDLE AGES	3 credits
Emphasis is placed on such works as <i>Cantar de Mio Cid</i> , <i>Poema de Fernan Gonzalez</i> , and <i>Amadis de Gaula</i> ; authors include Berceo, Alfonso X, Juan Manuel, Juan Ruiz, Marques de Santillana, and los Manrique.		
<b>Spanish 411. (423)</b>	RENAISSANCE LITERATURE	3 credits
The works of Boscan, Garcilaso, Encina, Nebrija, Torres Naharro, and Lope de Rueda, and such works as <i>Tirant lo Blanc</i> , <i>Celestina</i> , and <i>Lazarillo de Tormes</i> form the basis of this period of literary activity.		



**Spanish 415. (420)**

SEMINAR: DRAMA OF THE GOLDEN AGE

3 credits

Readings, reports and discussions of the principal dramatists of the Golden Age: Lope de Vega, Tirso de Molina, Calderon, Alarcon and others.

**Spanish 417. (421)**

SEMINAR: THE NOVEL IN THE GOLDEN AGE

3 credits

An extensive study based on readings, reports and discussions on the evolution of the Spanish picaresque novel: Lazarillo de Tormes, Guzman de Alfarache and others.

**Spanish 419. (415)**

READING LIST: CERVANTES

3 credits

Readings and discussions of the Galatea, Persiles, theatre, and novelas ejemplares, as well as *Don Quijote*.

**Spanish 442. (424)**

ROMANTICISM

3 credits

A study of the early 19th century analyzes the works of such authors and poets as Larra, Duque de Rivas, Zorilla, Espronceda, Garcia Gutierrez, Hartzenbusch, and Becquer.

**Spanish 443. (425)**

POETRY OF THE 19th AND 20th CENTURIES

3 credits

Works by Gabriel y Galan, de Castro, Dario, los Machado, Jimenez, Lorca, Guillen, Otero, and Salinas are considered.

**Spanish 447. (402)**

READING LIST: THE SPANISH NOVEL OF THE 19th CENTURY

3 credits

The development and tendencies in the modern Spanish novel as indicated in the works of Valera, Pereda, Palacio Valdes, Alarcon, Galdos, Pardo Bazan and others.

**Spanish 448. (414)**

READING LIST: THE SPANISH AMERICAN NOVEL

3 credits

Readings and discussions on the sociological and the literary aspects of the leading Spanish American authors and the development of their earliest works.

**Spanish 457. (413)**

READING LIST: THE SPANISH NOVEL OF THE 20th CENTURY

3 credits

Reading and discussion of the contemporary Spanish authors, their ideology and philosophies: Blasco Ibanez, Pio Baroja, Valle Inclan, Cela, Gironella, Laforet and others.

**Spanish 471. (440)**

SPANISH HONORS SEMINAR

3 credits

Tutorial conferences, papers, discussions, and experience in classroom teaching.

## **COMPARATIVE LITERATURE**

### **Comparative Literature 101. (201)**

SURVEY OF WESTERN LITERATURE I

3 credits

Lectures on masterpieces of western literature from its beginnings to the end of the classical period. Course investigates the western author's attempt to establish a consistent world view and the emergence of specific literary forms: the epic, the narrative, the drama. Discussion of comparative aspects of English, French, German, Italian, Russian, and Spanish literatures. Team-taught.

### **Comparative Literature 103. (203)**

SURVEY OF WESTERN LITERATURE II

3 credits

Lectures on masterpieces of western literature from the end of the classical period to the present day. Course investigates relationship of the modern author to reality and the transformations in his world-view and in specific literary forms. Discussion of comparative aspects of English, French, German, Italian, Russian, and Spanish literatures. Team-taught.

### **Comparative Literature 105. (301)**

CLASSICISM IN WESTERN LITERATURE

3 credits

Study and discussion of the literature of the classical age in western tradition. Designed to enable the student to discover the essential components of classicism in all the literatures studied and the significance of national variations. Team-taught.

### **Comparative Literature 107. (303)**

ROMANTICISM IN WESTERN LITERATURE

3 credits

Study and discussion of the literature of the romantic period in western tradition. Designed to enable the student to discover the essential components of romanticism in all the literatures studied and the significance of national variations. Team-taught.

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## **HISTORY**

JOHN P. ROSSI, Ph.D., Chairman

Professors: Donaghy, O'Grady

Associate Professors: Cziraky, Hennessy, McCarthy, Rossi, Weinstein

Assistant Professors: Fair, Labunka

Instructor: Stow

Lecturer: Lukacs

### **Required for Major in History: 12 courses**

- Ordinarily the major would take 2 courses from Section A, 4 courses from Section B, and 6 courses from Section C (or 4 from Section C and 2 from Section D). Exceptions must be approved by the chairman.

#### **SECTION A.**

#### **INTRODUCTORY SURVEYS**

Broad studies of certain parts of the world; meant primarily for beginning students. The department recommends these foundation courses for freshmen.

<b>History 111. (201)</b>	HISTORY OF WESTERN CIVILIZATION TO 1500	3 credits
A survey of cultural achievements of ancient civilizations of the Mediterranean Basin, as well as of the medieval Europe which became part of the heritage of Western or European Civilization.		
<b>History 112. (202)</b>	HISTORY OF WESTERN CIVILIZATION, II	3 credits
A survey of European history from Renaissance to modern times. Development of national states and other modern institutions in Europe discussed. Socio-economic changes within the European society considered as a background.		
<b>History 113-114. (240-241)</b>	AN INTRODUCTION TO THE AFRO-ASIAN WORLDS, I & II	3-6 credits
An examination of the social, economic, political, and cultural institution of Asia, the Moslem world, tropical Africa and South Africa.		
<b>History 115. (219)</b>	HISTORY OF THE UNITED STATES TO 1865	3 credits
A survey of the American people from colonial days to the Civil War.		
<b>History 116. (220)</b>	HISTORY OF THE UNITED STATES SINCE 1865	3 credits
A survey of the American people with particular emphasis upon industrialization, social change, and the growth of the nation as a world power.		
<b>History 117. (230)</b>	LATIN-AMERICA: THE COLONIAL PERIOD	3 credits
A survey that treats the Inca, Aztec, and Maya cultures, African influences as well as Spanish and Portuguese contributions to the development of Latin-America.		
<b>History 118. (231)</b>	LATIN-AMERICA: REVOLUTION AND SOCIAL CHANGE	3 credits
A study of Latin-America from independence to the present with equal emphasis upon regionalism, the military, revolution, dictatorship, and economic development.		
<b>SECTION B:</b>		
<b>INTERMEDIATE STUDIES</b>		
Courses designed to provide knowledge in depth of various periods and topics, but meant primarily for students above the freshman level to fulfill distribution and free elective requirements. Freshmen may elect from these courses to fulfill distribution requirements if they have special interests.		
<b>History 203. (209)</b>	THE ANCIENT NEAR EAST	3 credits
A survey that stresses the development of Greek civilization until the death of Alexander the Great. Fall 1974.		
<b>History 204. (210)</b>	THE HELLENISTIC AND ROMAN WORLDS	3 credits
A survey that places a special emphasis upon the Roman Republic and the Empire until 476 A.D. Spring 1975.		

<b>History 205. (211)</b>		
THE EARLY MIDDLE AGES		3 credits
A study of the period from 284 A.D. until c. 1000 A.D., emphasizing the synthesis of Roman, Christian, and barbarian cultures. Fall 1975.		
<b>History 206. (212)</b>		
THE LATER MIDDLE AGES		3 credits
A study of the period from c. 1000 A.D. until the Renaissance, focusing on the social, economic, intellectual, and political revival of Europe. Spring 1976.		
<b>History 214.</b>		
MODERN EUROPE TO 1870: THE AGE OF REVOLUTIONS		3 credits
A survey of Europe centered on the political and social development in Germany and France and the impact of Russia's rise to world power.		
<b>History 215.</b>		
MODERN EUROPE SINCE 1870: THE AGE OF VIOLENCE		3 credits
A detailed survey of Europe in the last hundred years.		
<b>History 221. (340)</b>		
TOPICS IN AFRICAN HISTORY		3 credits
An account of the empires, tribes, and states of Africa before European colonialism. Fall 1975.		
<b>History 225.</b>		
IMPERIALISM IN THE MODERN WORLD.		3 credits
A study of the expansion of western nations into the world of Asia and Africa in the 19th century, and the contraction of western influence in these areas in the 20th century. Fall 1975.		79
<b>History 226.</b>		
MODERN NATIONALISM		3 credits
An examination and evaluation, from the historical standpoint, of the phenomenon of nationalism and its influence upon various societies since the French Revolution. Spring 1976.		
<b>History 231. (415)</b>		
AMERICA'S MILITARY PAST		3 credits
The impact of the American military establishment upon American society, and the formation of defense strategy and foreign policy. Spring 1976.		
<b>History 233.</b>		
THE AMERICAN IMMIGRANT		3 credits
The history of immigration to America and the ethnic impact upon American institutions. Fall 1975.		
<b>History 237. (328)</b>		
BLACK AMERICA		3 credits
A study of African backgrounds, slavery, the role of free negroes, and the struggle against slavery. Spring 1976.		

**SECTION C:****SPECIALIZED STUDIES**

Courses designed to give detailed knowledge about specific periods and countries. These are designed for history majors and juniors and seniors from other majors who wish to use them to fulfill free elective requirements. These should not ordinarily be taken to fulfill Distribution Requirements except by students with advanced standing.

**History 301. (329)**

## THE BRITISH COLONIES IN AMERICA

3 credits

An intensive study of European expansion into the New World, with particular emphasis on British settlements and their early development. Fall 1974.

**History 302. (330)**

## THE AMERICAN REVOLUTION

3 credits

An intensive analysis of concepts and movements generated in the American colonies which resulted in revolution and separation of the British settlements. Spring 1975.

**History 311. (331)**

## THE BIRTH OF THE AMERICAN NATION 1789-1815

3 credits

A detailed study of the making of the Constitution and the development of republican institutions. Fall 1975.

**History 312. (332)**

## JACKSONIAN AMERICA 1815-1840

3 credits

A detailed analysis of the development of the American political system in an increasingly democratic society. Spring 1976.

**History 315. (333)**

## THE CIVIL WAR IN AMERICA (1850-1865)

3 credits

A detailed study of the disruption of the Union, stressing the causes, personalities and human drama of the military events leading to Appomattox. Fall 1975.

**History 316. (334)**

## THE RECONSTRUCTION ERA (1865-1877)

3 credits

A study of the road to reunion, including the completion of the abolitionist movement, along with a focus on Civil War literature. Spring 1976.

**History 319. (435)**

## EARLY 19th CENTURY AMERICAN LIFE AND THOUGHT

3 credits

American studies approach with topics in the shaping of the American character, humanitarian reforms, far west frontier, and the ante-bellum South. Fall 1975.

**History 320. (436)**

## LATE 19th CENTURY AMERICAN LIFE AND THOUGHT

3 credits

American studies approach with topics in the age of big business, popular culture and literature, including social critics and world power. Spring 1974.

**History 323. (437)**

## EARLY 20th CENTURY AMERICA

3 credits

A study of the growth of government involvement at home and abroad from 1900 to 1939, based upon the reading and analysis of original documents. Fall 1974.

**History 243.**

## ENGLISH CONSTITUTIONAL HISTORY

3 credits

Study of the origins and development of the English way of government; influences upon the laws, decisions and customs which make up the traditional constitution of England. Fall 1974.

**History 244.****UNITED STATES CONSTITUTIONAL HISTORY**

3 credits

A study of the development of constitutional principles and their application from their English origin through evolutionary modification in colonial America, the new state constitutions, the Articles of Confederation, and the federal Constitution. Traces the evolution of the "working constitution" through the influences of a growing and changing country, court decisions, and amendments. Spring 1975.

**History 324. (438)****RECENT AMERICAN HISTORY**

3 credits

A study of the growth of government involvement at home and abroad since 1939 based upon the reading and analysis of original documents. Spring 1975.

**History 331. (349)****THE RENAISSANCE**

3 credits

Topics illustrating the intellectual and political life of Europe from Dante to Elizabeth I. Fall 1975.

**History 332. (350)****THE REFORMATION**

3 credits

The sundering of Christendom; particular attention is paid to the roles of Erasmus, Luther, Calvin, and Loyola. Spring 1976.

**History 333. (358)****EUROPE DURING THE AGE OF KINGS**

3 credits

Europe from the accession of Elizabeth I to the reign of Louis XIV with emphasis on the creation of the absolute state. Fall 1974.

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**History 334. (359)****THE AGE OF SCIENCE AND ENLIGHTENMENT**

3 credits

Survey of European culture from Newton to Voltaire with special attention to the relationship of social criticism to political action. Spring 1975.

**History 341. (371)****THE RISE OF BYZANTIUM**

3 credits

Byzantine society as the treasurer of the classical antiquity and the mentor of barbarians. From the foundation of Constantinople (324 A.D.) to the Photian Schism (1054). Fall 1974.

**History 342. (372)****DECLINE AND FALL OF THE BYZANTINE EMPIRE**

3 credits

A study of the Greek society's struggle for survival and the cultural influence of Byzantium in East and West. Spring 1975.

**History 345. (444)****A HISTORY OF EAST ASIA FROM THE OPIUM WAR TO 1920**

3 credits

A detailed examination of the changes occurring in modern East Asia due to the rise of industrialism, urbanism, western influence, and nationalism. Fall 1975.

**History 346. (445)****A HISTORY OF EAST ASIA SINCE 1920**

3 credits

A detailed analysis of the impact upon East Asia of nationalism, industrialism, western influence, and militarism with special attention to China and Japan. Spring 1976.

<b>History 351. (425)</b>	EARLY RUSSIAN HISTORY	3 credits
A study of the emergence of Eastern Slavic nations (Ukrainians, Belorussians, and Russians) and the political and cultural development during the Middle Ages. Fall 1975.		
<b>History 352. (426)</b>	MODERN RUSSIAN HISTORY	3 credits
A study of the foundation and expansion of the Russian Empire from the late Middle Ages to the present time. Spring 1976.		
<b>History 353.</b>	19th CENTURY FRANCE	3 credits
A study of France from the Revolution to 1871. Fall 1975.		
<b>History 354.</b>	20th CENTURY FRANCE	3 credits
A study of French politics from the Commune in 1871 to DeGaulle. Spring 1976.		
<b>History 355.</b>	GERMANY IN THE 19th CENTURY	3 credits
A study of German political and international life from 1815 to 1914. Fall 1974.		
<b>History 356.</b>	GERMANY IN THE 20th CENTURY	3 credits
82	A study of German politics with emphasis upon the rise of Hitler, Hitler's Europe, and the period since World War II. Spring 1975.	
<b>History 357. (351)</b>	EARLY MODERN BRITAIN: OLIGARCHY TO DEMOCRACY	3 credits
A study of the social, political, and economic trends in England from 1760 to 1870. Fall 1974.		
<b>History 358. (352)</b>	RECENT BRITAIN: EMPIRE TO WELFARE STATE	3 credits
A detailed analysis of the decay of the Empire, the rise of the welfare state, and the impact of both on English life. Spring 1975.		

#### **SECTION D: SEMINARS**

Courses designed for history majors who wish the experience of a methodology course and a research course. The former must be taken in the spring term of the junior year to qualify for the right to take the research seminar in the fall semester of the senior year.

<b>History 471-476</b>	SEMINARS.	3-6 credits
Methodological and research courses.		

## MATHEMATICS

SAMUEL J. WILEY, Ph.D., Chairman

Professors: Albright, Connelly

Associate Professors: Hofmann, O'Neill, Wiley

Assistant Professors: Baker, Brady, Callahan, McCarty,

Mooney, Tropper, Tseng

Instructors: Bursky, Leonard

### Required for Major in Mathematics: 15 courses

There are three programs for mathematics majors. The choice of program should depend on career objectives and personal interests. If there are any questions the student should consult with the department chairman or departmental adviser.

#### Mathematics:

Mathematics 120, 221, 222, 240, 321, 341, Computer Science 151, Physics 105-106 or 111-112, and 6 mathematics courses from Section B.

#### Mathematics-Computer Science:

Mathematics 120, 221, 222, 240, 321, 341, Computer Science 151, 152, 350, 351, 355, 356, and 3 courses from Section B mathematics courses or Computer Science 450.

#### Mathematics-Education (11 courses):

Mathematics 120, 221, 222, 240, 321, 330, 341, Computer Science 151, Physics 105-106 or 111-112, and 1 mathematics course from Section B.

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### SECTION A:

#### Mathematics 101.

FINITE MATHEMATICS

3 credits

Sets; relations and functions; logic; probability; linear systems; matrices.

#### Mathematics 102.

INTRODUCTION TO CALCULUS

3 credits

The real number system; elementary functions; differential and integral calculus.

#### Mathematics 107-108. (111-112)

MATHEMATICS FOR THE LIBERAL ARTS

3-6 credits

A terminal course aimed at liberal arts students. Fall term topics include number theory, groups, logic and set theory, and geometry. Spring term: logic, analysis, probability.

Mathematics 107 is a prerequisite for 108.

#### Mathematics 113. (103)

ALGEBRA AND TRIGONOMETRY

4 credits

Sets: the real number system linear systems; matrices; logarithmic, exponential and trigonometric functions; theory of equations.

#### Mathematics 120. (106)

CALCULUS AND ANALYTIC GEOMETRY I

4 credits

Functions; limits and continuity; differentiation of algebraic functions; maxima and minima; curve tracing, velocity and acceleration; integration with applications to areas, volumes, surfaces and work; the fundamental theorem of the calculus.

#### Mathematics 221. (216)

CALCULUS AND ANALYTIC GEOMETRY II

4 credits

Differentiation and integration of transcendental functions; techniques of integration; improper integrals; conic sections; polar coordinates. Prerequisite: Mathematics 120.

<b>Mathematics 222. (217)</b>	CALCULUS AND ANALYTIC GEOMETRY III	4 credits
Linear algebra; vector functions; partial differentiation; multiple integration; infinite series; Taylor expansions. Prerequisite: Mathematics 221.		
<b>Mathematics 240. (201)</b>	LINEAR ALGEBRA	3 credits
Linear equations and matrices; real vector spaces; linear transformations and matrices; determinants; eigenvalues and eigenvectors. Prerequisite: Mathematics 102 or 120.		
<b>Mathematics 321. (310)</b>	ADVANCED CALCULUS	3 credits
Calculus of vector valued functions; Green, Gauss and Stokes theorems; infinite series. Prerequisite: Mathematics 222.		
<b>Mathematics 341. (312)</b>	MODERN ALGEBRA	3 credits
Sets and mappings; groups, rings and homomorphisms; Sylow theorems; quotient structures; polynomial rings; ideals.		

## SECTION B:

<b>Mathematics 322. (308)</b>	DIFFERENTIAL EQUATIONS	3 credits
Differential equations of the first order; linear differential equations of higher order; Laplace transforms; series solutions; applications to the physical sciences. Prerequisite: Mathematics 222.		
<b>Mathematics 330. (350)</b>	PROJECTIVE GEOMETRY	3 credits
Axioms systems; duality; theorems of Desargues and Pappus; relationship between projective spaces and vector spaces; collineations; conic sections; theorem of Pascal; pole-polar duality. Prerequisite: Mathematics 341.		
<b>Mathematics 410. (460)</b>	PROBABILITY	3 credits
Probability spaces; random variables; discrete and continuous distributions; mass and density functions; moment generating functions; expectation; limit theorems. Prerequisite: Mathematics 222.		
<b>Mathematics 415, 416, 417, 418 (481, 482, 483, 484)</b>	SELECTED TOPICS IN MATHEMATICS	3 credits
An introductory course to specialized research, concentrating on one particular aspect of mathematics. The subject matter will vary from term to term.		
<b>Mathematics 421. (450)</b>	NUMERICAL ANALYSIS	4 credits
Solution of algebraic, transcendental and differential equations; difference equations; matrix inversion; Gauss and Chebyschev functions. Prerequisite: Mathematics 321.		
<b>Mathematics 422. (470)</b>	SPECIAL FUNCTIONS	3 credits
Generating functions; orthogonal systems of functions; Legendre, Hermite, Bessel, Fourier, Gamma and Beta functions; partial differential equations. Prerequisites: Mathematics 321 and 322.		

**Mathematics 423. (475)**

REAL VARIABLES

3 credits

Real number system; Lebesgue measure; Lebesgue integration; differentiation; general measure and integration theory. Prerequisite: Mathematics 321.

**Mathematics 424. (485)**

COMPLEX VARIABLES

3 credits

Analytic functions; Cauchy-Riemann equations; Cauchy's integral theorem; power series; infinite series; calculus of residues; contour integration; conformal mapping. Prerequisite: Mathematics 321.

**Mathematics 430.**

TOPOLOGY

3 credits

Topological spaces; subspaces, product spaces, quotient spaces; connectedness; compactness; metric spaces; applications to analysis. Prerequisite: Mathematics 341.

**Mathematics 442. (425)**

MODERN ALGEBRA II

3 credits

Vector spaces, modules, linear transformations, canonical forms of matrices, fields, Galois Theory, solvability by radicals. Prerequisite: Mathematics 341.

## COMPUTER SCIENCE

**Computer Science 151. (121)**

INTRODUCTION TO COMPUTING

3 credits

Basic programming and program structure; data representation; survey of computers, languages, systems, and applications; computer solution of several numerical and non-numerical problems. Prerequisite: one year of college mathematics (or taken concurrently).

**Computer Science 152. (122)**

COMPUTERS AND PROGRAMMING

3 credits

Computer systems organization; machine language and symbolic coding; assembly systems; macro definition and generation; program segmentation and linkage; systems and utility programs. Prerequisite: C.S. 151.

**Computer Science 350. (221)**

INTRODUCTION TO DISCRETE STRUCTURES

3 credits

Review of set algebra including mappings and relations; algebraic structures including semigroups and groups; elements of the theory of directed and undirected graphs; boolean algebra and propositional logic; applications of these structures to various area of computer science. Prerequisite: C.S. 151.

**Computer Science 351.**

PROGRAMMING LANGUAGES

3 credits

Formal definition of programming languages including specification of syntax and semantics; simple statements including precedence, infix, prefix, and postfix notation; global properties of algorithmic languages including scope of declarations, storage allocation, grouping of statements, binding time of constituents, subroutines, routines, and tasks; list processing, string manipulation, data description, and simulation languages; run-time representation of programs and data structures. Prerequisite: C.S. 152, 350.

**Computer Science 355.**

COMPUTER SYSTEMS: HARDWARE AND SOFTWARE

3 credits

Hardware modules for control, input-output, arithmetic, and storage and their interaction; operating system software; multiprogramming, multiprocessing, teleprocessing, time-sharing and real-time systems; software design. Prerequisite: C.S. 152.

**Computer Science 356. (222)**

INFORMATION STRUCTURES IN COMPUTING

3 credits

Basic concepts of information; modeling structures—linear lists, multilinked structures, arrays, and trees; sorting and searching; file system functions, organization and structure; analysis of file systems; data management systems. Prerequisite: C.S. 355.

**Computer Science 450.**

SELECTED TOPICS IN COMPUTER SCIENCE

3 credits

An introductory course to specialized research in computers and computing, concentrating on one particular aspect of computer science. The subject matter will vary from term to term.



## MILITARY SCIENCE

LIEUT. COLONEL PETER F. DRURY, M.S.  
Professor of Military Science

### **Military Science 101-102.**

BASIC FRESHMAN MILITARY SCIENCE I 3 credits

The role of power in international affairs. The national security structure of the United States. Study of the principles of war in selected battles in world history. Team taught by political science and military science departments. Leadership: psychology of leadership. Principles of leadership and management. First semester: one hour of lecture, one hour of laboratory. Second semester: two hours of lecture, one hour of laboratory.

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### **Military Science 201-202.**

BASIC SOPHOMORE MILITARY SCIENCE II 3 credits

A continuation of M.S. I: American military history team-taught by members of the history and military science departments; map readings and geology; introduction to field artillery and other branches of the Army. Leadership: continuation of principles of leadership and management. Field trips. Two hours of lecture, one hour of laboratory: two terms.

### **Military Science 301-302.**

ADVANCED COURSE MILITARY SCIENCE III 3-6 credits

Provides basic military education and, with other college disciplines, develops individual character and attributes essential to an officer: leadership; military teaching principles; artillery and infantry operations; communications and pre-camp orientation. Instruction and experience in exercising command. Three hours of lecture, one hour of laboratory: two terms.

### **Military Science 401-402.**

ADVANCED COURSE MILITARY SCIENCE IV 3-6 credits

A continuation of M.S. III. Develops an appreciation of command and staff responsibilities: army administration; military law; operations; logistics; the role of the United States in world affairs; field artillery operations; and service orientation. Leadership: continuation of instruction and experience in exercising command. Flight training (light aviation) is available to a limited number of cadets on an extracurricular basis. Three hours of lecture, one hour of laboratory: two terms.

## MUSIC

(See Fine Arts, page 60)

## PHILOSOPHY

MICHAEL KERLIN, Ph.D., Chairman

Professors: Mihalich, Naughton

Associate Professors: Fitzgerald, Gibbons, Kerlin, Lashchyk, Pierzchalski, Strosser

Assistant Professors: Fallon, Janik, Lowry, Macoretta, Phillips

### Required for Major in Philosophy: 12 courses

- Any 100 course; any 200 course; 311, 312, 411, 412, 413, 416, 470.
- Any three courses over the 200 level.

## GENERAL EDUCATION

The student must take one course in Series A and one course in Series B to complete his General Education requirements in philosophy. The course in Series A must be completed before the one in Series B.

### SERIES A

#### Philosophy 161. (101)

HUMAN NATURE AND HUMAN  
DESTINY

3 credits

A study of man in himself and his relationship to others and to the world. Themes discussed include the nature of philosophical argumentation; the problems of human freedom and human love; the dilemma of self-alienation; and the concern with human destiny in its various manifestations.

#### Philosophy 162. (102)

FOUNDATIONS OF MORAL LIFE

3 credits

A study of philosophical interpretations of moral life and their application to specific problems. Themes discussed include the nature of commitment and responsibility; the problem of conscience and moral law; the character of moral judgment; and the notion of the good for mankind.

#### Philosophy 163. (103)

ORIGINS OF PHILOSOPHICAL  
THOUGHT

3 credits

A study of the historical and ideological origins of philosophical thought, and their relevancy and contribution to the subsequent development of philosophical knowledge.

### SERIES B

#### Philosophy 261. (201)

REASON AND REALITY

3 credits

A study of the basic relationships between thought and reality. Themes discussed include skepticism and truth; rationality and selfhood; and knowledge and the various manifestations of existence.

#### Philosophy 262. (202)

PHILOSOPHICAL APPROACHES TO GOD

3 credits

A study of philosophical positions relating to questions about the existence and nature of God. Themes discussed include various concepts of God; the possibility of proof for the existence of God; and the philosophical dimensions of the religious experience.

#### Philosophy 263. (203)

MIND AND EXPERIENCE IN MODERN

PHILOSOPHY

3 credits

A study of the main trends in the classical period of modern philosophy (Descartes to Kant), and the impact of such themes as rationalism, empiricism, and romanticism in the formation of the contemporary philosophical mind.

<b>Philosophy 301. (401)</b>	AESTHETICS	3 credits
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A consideration of the philosophical basis for making judgments about the art experience. Designed to acquaint the student with the major features and thinkers of the classical, romantic, and modern periods.

<b>Philosophy 302. (402)</b>	EASTERN PHILOSOPHY	3 credits
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A study of the primary streams of Hindu and Chinese thought as they originated and as they attract western thinkers of today. Jainism, Samkhya-Yoga, Vedanta, Early Buddhism, Transcendental Buddhism, Confucianism, Taoism, forms of Chinese Buddhism, and Zen will be given most attention. Fall term.

<b>Philosophy 303. (403)</b>	AMERICAN PHILOSOPHY	3 credits
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A presentation and evaluation of the major thinkers and themes in American thought from the Enlightenment through Transcendentalism to Pragmatism. Figures studied include: Emerson, Peirce, James, Dewey, and Royce. Spring term.

<b>Philosophy 304. (409)</b>	RUSSIAN AND EAST EUROPEAN PHILOSOPHY	3 credits
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A critical and historical study of philosophy in Eastern Europe beginning with the dominant schools of Russian thought including the Slavophiles, Westernizers, Nihilists, Populists, critics of religion and culture, Marxists and Communists. A study of central figures in Hungarian, Polish, Ukrainian philosophic thought included. Spring term.

<b>Philosophy 305. (428)</b>	MARX AND MARXISM	3 credits
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An historical and systematic study of the writings of Karl Marx emphasizing the Hegelian origins of his critique of capitalism, the problem of ideology, the Marxian view of social science, and the development of Marxism as theory and practice at the hands of Engels, Lenin, and Stalin. Fall term.

<b>Philosophy 306.</b>	SOCIAL PHILOSOPHY	3 credits
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A critical examination of theories about society. Topics include: person and community, human rights (particular emphasis on the civil rights movement and the women's movement), law and justice, alternative social structures. Some attention given to the nature and scope of the social sciences. Fall term.

<b>Philosophy 307.</b>	CLASSICAL LOGIC	3 credits
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A study of the major forms of logical inference with particular stress on Aristotelian logic. Includes a consideration of the more informal aspects of logic such as the ways of avoiding ambiguities and fallacies and the problems of definition; the role of argument in rational discourse. Fall 1974.

<b>Philosophy 308.</b>	THE PHILOSOPHY OF HISTORY	3 credits
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A study of some of the principal viewpoints about historical knowledge and historical development. Problems discussed include: subjectivity and objectivity, causality and explanation, perspective and relativity in history. The great schemes of historical interpretation also considered. Spring term.

<b>Philosophy 311. (302)</b> PROBLEMS OF KNOWLEDGE	3 credits
A systematic investigation into the sources, limits, and nature of knowledge. Topics include: meaning and its relation to truth of statements; nature and criteria of truth, role of observation, perspective and conceptualization in the justification of knowledge claims. (Required of all philosophy majors; open to others with the approval of the chairman.) Fall term.	
<b>Philosophy 312. (315)</b> ADVANCED MORAL PHILOSOPHY	3 credits
Intended to stimulate and help the student to do clear, precise, philosophical thinking about ethical questions through the reading and discussion of some of the primary philosophical texts that influenced the development of western moral thought; a more specialized course than Philosophy 102. (Required of all philosophy majors; open to others with the approval of the chairman.) Spring term.	
<b>Philosophy 321. (Adm. 421)</b> BUSINESS ETHICS	3 credits
Business practices evaluated in the light of ethical principles. Special concern given to moral dimensions of management decision-making and to the ethical problems of consumerism and government control. Spring term.	
<b>Philosophy 401.</b> PHENOMENOLOGY AND EXISTENTIALISM	3 credits
An approach to contemporary phenomenology and existentialism through philosophers such as Husserl, Heidegger, Sartre, and Merleau-Ponty. Topics include: the phenomenological method, human existence as process, meaning vs. absurdity, and the overcoming of alienation.	
<b>Philosophy 402. (406)</b> PHILOSOPHY OF SCIENCE	3 credits
An investigation into the nature and concepts of science. Philosophical problems common to the natural and social sciences. The impact of revolutions in the history of science discussed with reference to changes in the factual base, meaning of terms and values or criteria of rationality. Spring term.	
<b>Philosophy 403. (407)</b> THE PHILOSOPHY OF LANGUAGE	3 credits
Course attempts to develop a theory capable of explaining communication. Discussion of basic problems such as the relationships between word and concept, meaning and reference, signs and symbols. Discussion will encompass poetic as well as conceptual uses of language. Fall term.	
<b>Philosophy 404.</b> SYMBOLIC LOGIC	3 credits
A study of the following aspects of symbolic logic: truth functional logic, quantificational logic, logic of relations, proofs of adequacy for the system used, undecidability and incompleteness, the relationship between modern logic and Aristotelian logic. Fall 1975.	
<b>Philosophy 411.</b> HISTORY OF WESTERN PHILOSOPHY: ANCIENT PERIOD	3 credits
Philosophy in ancient Greece and Rome, with concentration on Plato and Aristotle. Fall 1973. (Required of all philosophy majors.)	

**Philosophy 412.**HISTORY OF WESTERN PHILOSOPHY: MEDIEVAL AND  
RENAISSANCE PERIODS

3 credits

From St. Augustine through the age of scholasticism to the Renaissance. Spring 1974.  
(Required of all philosophy majors.)**Philosophy 413.**

HISTORY OF WESTERN PHILOSOPHY: MODERN PERIOD

3 credits

From Hobbes and Descartes to the Enlightenment, with concentration on the rationalists,  
empiricists, and Kant. Fall 1974. (Required of all philosophy majors.)**Philosophy 416.**

TUTORIAL IN PHILOSOPHY

3 credits

Introduces the student to the critical reading of a major philosophical text. Text will  
be studied in common, and critical papers will be written on the text studied. Spring  
1975. (Required of all philosophy majors; open to others with the approval of the  
chairman.)**Philosophy 470. (425)**

SEMINAR

3 credits

A comprehensive investigation of philosophy as an integral and integrating discipline.  
Qualified majors (and others approved by the chairman) may elect an honors extension  
of the seminar (three additional credits). Requirements: maintenance of 3.75 index  
in philosophy, submission of an acceptable research paper done under department  
mentor chosen by student, and attainment of a distinguished pass in the oral examination.  
Spring 1974. (Required of all philosophy majors; open to others with the approval  
of the chairman.)**Philosophy 490.**

SPECIAL TOPICS

3 credits

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## PHYSICS

JOSEPH W. SIMMONS, M.S., Chairman

Associate Professors: Guttmann, Simmons

Assistant Professors: Galatola, Longo, Strieb

**Required for Major in Physics: 15 courses**

- Physics 111, 112, 113, 211, 212, 213, 311, 313, 411, 412
- Physics 214 and 224 or 351 and 352
- Mathematics 120, 221, 222

**Physics 101. (333)**

FROM THE ATOM UP

3 credits

For science and non-science majors. The concepts and models of dynamics and astronomy culminating in the Newtonian world view and the Quantum Revolution. Concepts rather than mathematics are stressed. No prerequisites.

**Physics 102.**

FROM THE ATOM DOWN

3 credits

For science and non-science majors. The insights and puzzles resulting from probing the nucleus and below: nuclear energy, the elementary particles, the concepts of relativity. Concepts rather than mathematics are stressed.

<b>Physics 105-106. (211-212)</b>	GENERAL PHYSICS	4-8 credits
Mechanics, heat, light, sound, electricity and magnetism, and modern physics. Prerequisite: Mathematics 120. Three hours lecture, two hours laboratory; two terms.		
<b>Physics 111-112.</b>	GENERAL PHYSICS I & II	
For freshman physics majors. Topics include mechanics, special relativity, electricity, and magnetism. First semester is self-paced program (the Keller Plan) involving 12 self-taught units. Prerequisites: Mathematics 120 and 221 concurrently. Three hours lecture, two hours laboratory; two terms.		
<b>Physics 113. (213)</b>	GENERAL PHYSICS III	4 credits
Includes topics relative to wave phenomena and modern physics. Prerequisites: Physics 112 or 106; Mathematics 221 concurrently. Three hours lecture, two hours laboratory.		
<b>Physics 151. (315)</b>	SCIENTIFIC PROGRAMMING	3 credits
The elements of computer programming with emphasis on the Fortran language and its scientific applications. Open to all science majors and designed to enable the student to utilize computer techniques in his own field of study. Two hours lecture, two hours laboratory.		
<b>Physics 211. (311)</b>	MATHEMATICAL PHYSICS I	3 credits
Vector analysis, differential equations, introduction to partial differential equations, Fourier series and boundary value problems. Emphasis on the physical origins and applications of mathematical techniques.		
<b>Physics 212. (312)</b>	MATHEMATICAL PHYSICS II	3 credits
Complex variables and complex integration, Fourier and Laplace transforms, special function of mathematical physics and boundary value problems. Physical applications stressed.		
<b>Physics 213. (405)</b>	THERMAL PHYSICS	3 credits
Topics treated include the first, second, and third law of thermodynamics; kinetic theory of gases; transport phenomena; Maxwell-Boltzmann statistics; Bose-Einstein and Fermi-Dirac statistics. Three hours lecture.		
<b>Physics 214. (410)</b>	ELECTRONICS I	3 credits
Familiarization with basic electronic instruments, such as the oscilloscope and function generator, two terminal devices, capacitors, inductors, resistors and diodes, transistors as on-off devices, operational amplifiers, pulse and digital circuits. Prerequisites: Mathematics 222, Physics 106 or 112.		
<b>Physics 224.</b>	ELECTRONICS II	3 credits
Three terminal devices, transistors and tubes, small signal analysis, DC biasing, multi-stage operation, feedback, special purpose semiconductor devices, operational amplifiers. Prerequisite: Physics 214.		

<b>Physics 302. (421)</b>		
HISTORY OF SCIENCE		2 credits
An introduction to scientific thought and scientific discoveries from the earliest times to the present. Individual work in the history of physics. Two hours lecture.		
<b>Physics 311. (309)</b>		
ELECTRICITY AND MAGNETISM I	3 credits	
Special relativity, electrostatics, potential theory, solution of Laplace's equation, magnetostatics, Faraday's law, dielectrics, Maxwell's equations, wave equation in free space, Poynting vector. Prerequisite: Physics 211 or equivalent.		
<b>Physics 312. (310)</b>		
ELECTRICITY AND MAGNETISM II	3 credits	
Electromagnetic waves in wave guides and materials, electromagnetic radiation, static and dynamic electric and magnetic properties of materials. Prerequisite: Physics 311 or equivalent.		
<b>Physics 313. (304)</b>		
STATES, WAVES, AND PHOTONS	4 credits	
A modern introduction to optics encompassing matrix representations of optical systems and polarization states of light; the Jones calculus, the Mueller calculus and the Stokes representation; states of light as eigenstates of operators, expectation values, the bracket product and probability amplitudes; an approach to scalar diffraction through Green's theorem and Fourier transforms; the electromagnetic field and its quantization. Prerequisite: Physics 311. Three hours lecture and one laboratory period.		93
<b>Physics 321. (305)</b>		
INTRODUCTION TO ASTROPHYSICS	3 credits	
Methods for determining the basic properties of stars, such as temperatures, masses, and radii; stellar energy and structure.		
<b>Physics 322. (306)</b>		
PLANETARY PHYSICS	3 credits	
The solar system and its origins; interiors and atmospheres of terrestrial and giant planets, interplanetary matter and comets. Prerequisite: Mathematics 221.		
<b>Physics 351.</b>		
ADVANCED LABORATORY I	3 credits	
Laboratory work with close faculty guidance, but emphasizing independent work and a professional approach. A selection of experiments from mechanics, acoustics, electricity and magnetism, atomic and nuclear physics, experimental methods and instrumentation, error and data analysis. Prerequisite: Physics 113.		
<b>Physics 352.</b>		
ADVANCED LABORATORY II	3 credits	
Similar in purpose to Physics 351 but with material selected which will not duplicate the student's previous experience. Prerequisite: Physics 113.		
<b>Physics 411-421. (413-414)</b>		
MECHANICS	3-6 credits	
Topics include the single particle and systems of particles in one, two, and three dimensions; rotation of a rigid body; moving coordinate systems; and the mechanics of continuous media. Lagrange's and Hamilton's equations are developed and tensor methods are introduced in their non-relationalistic applications. Prerequisites: Physics 211, 212 or equivalent. Three hours lecture; two terms.		

**Physics 412.**

## QUANTUM PHYSICS I

3 credits

The origins of quantum mechanics, the Schrodinger equation and its applications to one dimensional systems and the central field perturbation theory, quantum theory of measurement. Prerequisite: Physics 211 or equivalent.

**Physics 422.**

## QUANTUM PHYSICS II

3 credits

Applications of quantum mechanics to problems in atomic, nuclear and solid state physics. Prerequisite: Physics 412.

**Physics 481-482. (419-420)**

## RESEARCH

1-2 credits

Individual studies and research, presentation of papers, familiarization with the literature.



## POLITICAL SCIENCE

ROBERT J. COURTNEY, Ph.D., Chairman  
Professors: Cleary, Courtney  
Associate Professors: Dillon, Nathans  
Assistant Professors: Foley, Hill, McGovern

All political science courses except 471-472 are open to all students.

### Required for Major in Political Science: 15 courses

- Political Science 101, 102, 471, 472
- 6 political science electives
- Economics 101-102
- 2 history courses from Section A

#### Political Science 101.

SCIENCE OF GOVERNMENT 3 credits

A study of the nature of political authority, the state, its organs and their functions.  
Required of all political science majors.

#### Political Science 102. (201)

AMERICAN FEDERAL GOVERNMENT 3 credits

An examination of the organization and functions of the federal government of the United States; a study of the separation of powers and relations with states. Required of all political science majors.

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#### Political Science 103. (203)

SURVEY OF POLITICAL THOUGHT 3 credits

An analysis of the major political writers from Plato to the present. Emphasis on each author's concept of the state, its function and end, and his solution to the problem of the reconciliation of the common good with individual freedom.

#### Political Science 201. (103)

POLITICAL GEOGRAPHY 3 credits

A survey of the geographic factors influencing the real and potential economic and political development of nations. Required of all political science majors.

#### Political Science 202. (302)

AMERICAN STATE GOVERNMENT 3 credits

A study of the state as a partner in the federal system; the states' constitutional development; and principles underlying state governmental organization, reorganization, and functions.

#### Political Science 203. (303)

AMERICAN CONSTITUTIONAL LAW 3 credits

An analysis of the development of the Constitution via the interpretations of the Supreme Court. Principal topics are the federal system, judicial review, separation of powers, powers of Congress and the President, the Commerce Clause, and political and civil rights.

<b>Political Science 204. (304)</b>	BEHAVIORAL POLITICAL THEORY	3 credits
An examination of the nature of science in the study of political phenomena. A critical introduction to the major 20th century approaches to the study of politics, including systems, models of individual and collective decision-making, and concepts of power. The behavioral approach to politics: substance and method. Recommended for students interested in graduate school.		
<b>Political Science 205. (305)</b>	BUREAUCRATIC POLITICS AND ADMINISTRATION	3 credits
Analysis of bureaucracy within the national and urban context; internal characteristics and external political relationships with executives and legislatures, including unionization of bureaucratic personnel, budgetary relationships, innovation and the relationships of bureaucracy with clientele groups and the general public.		
<b>Political Science 206. (401)</b>	U.S. FOREIGN RELATIONS	3 credits
A study of the diplomatic and military instruments of American foreign relations, the formal and informal powers and processes by which policy is made, and the basic patterns of national interest and policy prior to World War II		
<b>Political Science 207. (402)</b>	U.S. FOREIGN RELATIONS	3 credits
An analysis of the main problems of American foreign relations from 1945 to the present.		
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<b>Political Science 208. (405)</b>	MUNICIPAL GOVERNMENT	3 credits
A study of the organization and functions of government at the municipal level and an analysis of trends and types of municipal governments.		
<b>Political Science 209. (406)</b>	WESTERN EUROPEAN POLITICS	3 credits
A political analysis of the constitutional principles and governmental organizations of England, France, and Germany.		
<b>Political Science 210. (408)</b>	LATIN AMERICAN POLITICS	3 credits
A political analysis of the constitutional principles and governmental organizations of Argentina, Brazil, and Chile.		
<b>Political Science 211. (407)</b>	INTERNATIONAL RELATIONS	3 credits
An analysis of the basic patterns and major factors underlying international politics. Consideration to current international problems.		
<b>Political Science 212. (409)</b>	AMERICAN POLITICAL PARTIES	3 credits
A view of the political problems of the United States as revealed in the major and minor political parties that have arisen during the country's history.		
<b>Political Science 213. (413)</b>	NON-WESTERN POLITICAL SYSTEMS	3 credits
A study of the governmental institutions and political processes of India and Pakistan. Particular emphasis will be given to factors contributing to development of democratic and non-democratic systems.		

<b>Political Science 214. (414)</b>		
NON-WESTERN POLITICAL SYSTEMS		3 credits
A study of the governmental institutions and political processes of the People's Republic of China and Japan. Particular emphasis to problems of development and modernization.		
<b>Political Science 216.</b>		
WESTERN EUROPEAN FOREIGN POLICIES		3 credits
A comparative analysis of the recent and contemporary foreign policies of Great Britain, France, and Germany, with some incidental material on the diplomacy of selected smaller powers.		
<b>Political Science 217.</b>		
COMPARATIVE FOREIGN POLICIES: ASIA		3 credits
This course will focus on the foreign policies of the major Asian powers and their relationship with the United States and Soviet Russia. Particular emphasis will be placed on the changing power configuration and on the development of Asian international organizations.		
<b>Political Science 218.</b>		
THE LEGISLATIVE PROCESS: THE U.S. CONGRESS		3 credits
The role of Congress in the legislative process; its internal operations and external political relations; especially with the President. Comparison of the characteristics of Congress with those of state legislatures and European legislative bodies.		
<b>Political Science 219.</b>		
MODERN POLITICAL IDEOLOGIES		3 credits
The interrelation of theory and practice and the development of "ideological" thinking will be explored through an analysis of the conceptions of man, history, state, and revolution espoused by Marxism-Leninism, Fascism-National Socialism, and Anarchism. Readings from original sources: Marx, Lenin, Mussolini, Hitler, Sorel, Camus, and Guevera.		
<b>Political Science 330. (420)</b>		
THE EDUCATION OF URBAN POPULATIONS		3 credits
Identical with Education 330 and Sociology 330. See p. 53		
<b>Political Science 380.</b>		
SPECIAL TOPICS OR INDEPENDENT STUDY		3 credits
As interests indicate, special programs may be introduced into the curriculum discussing highly specialized problems for group or independent study.		
<b>Political Science 471. (415)</b>		
SEMINAR I		3 credits
A study of methods of research and scholarly writing. Directed research and reports on individual assignments. Required of all political science majors.		
<b>Political Science 472. (416)</b>		
SEMINAR II		3 credits
Supervised research and writing on major topic. Weekly presentation and group discussion of individual papers. Submission of written thesis. Required of all political science majors.		

## PSYCHOLOGY

JOHN P. DONDERO, F.S.C., Ph.D., Chairman

Professors: Dondero, Grimes, McCarthy, Rooney

Associate Professors: Filicetti, Kovatch, Pfeiffer, Schreiner, Smith

Assistant Professors: Bernier, Burke, Gilligan, Keller, Oden, Pritchard,  
Schrader, Small

Lecturers: Brennan, Mitchell, Platt, Spergel, Walker

**Required for Major in Psychology:** Track 1: 12 courses; Track 2: 13 courses

**Track 1**

- Psychology 101, 102, 210, 211, 319, 320
- 4 electives in psychology
- 2 courses in mathematics

**Track 2**

- Psychology 101, 206, 210, 315, 408
- 1 course in methodology
- 5 electives in psychology
- 2 courses in mathematics

**Psychology 101.**

GENERAL PSYCHOLOGY I

3 credits

Introduction to the scientific study of human behavior. Emphasis on methods of psychological research and principles and theories developing from this research.

**Psychology 102. (201)**

GENERAL PSYCHOLOGY II

3 credits

For students who want to meet graduate school entrance requirements in psychology. Open to other students who desire a more intensive coverage of the principles and theories of psychology than is possible in the first introductory course. Prerequisite: Psychology 101.

**Psychology 203. (311)**

DEVELOPMENTAL PSYCHOLOGY

3 credits

A general study of the development of behavior and the human personality from conception through adulthood; special emphasis on childhood and adolescence. Prerequisite: Psychology 101.

**Psychology 206. (324)**

PERSONALITY DYNAMICS AND ADJUSTMENT

3 credits

An analysis of the human system, the dynamics of individual behavior, and a consideration of resources necessary for effective living as they are related to a better understanding of personal adjustments in healthy persons developing toward maturity. Recommended for students not majoring in psychology.

**Psychology 210. (212)**

STATISTICS I

3 credits

An introduction to statistics, emphasizing such descriptive measures as central tendency, variability and correlation. Prerequisite: Mathematics 101-102 or equivalent.

**Psychology 211. (213)**

STATISTICS II

3 credits

An intermediate course in inferential statistics, emphasizing such techniques as the analysis of variance and t-tests. Prerequisite: Statistics I or equivalent.

**Psychology 301. (303)**

EDUCATIONAL PSYCHOLOGY

3 credits

Identical with Education 203. See page 52.

N.B. General Psychology 101 is a prerequisite for all other psychology courses (with the exception of Psychology 210). With the permission of the instructor in a particular course this prerequisite may be waived.

**Psychology 306. (316)**

TESTS AND MEASUREMENTS

3 credits

The selection, administration, and interpretation of psychological tests used in the measurement of aptitudes, achievement, interest, and personality. Prerequisites: Psychology 101, 210 or equivalent.

**Psychology 315.**

ABNORMAL PSYCHOLOGY

3 credits

An introductory course surveying the principal forms of the major and minor mental disorders, with emphasis on the causes, symptoms, course, and treatment. An analysis of the over-all problem of mental illness and a study of certain borderline personality and behavioral patterns and other forms of psychological deviation. Prerequisite: Psychology 101 or 206 or permission of chairman.

**Psychology 319.**

EXPERIMENTAL PSYCHOLOGY I

4 credits

A laboratory course designed to introduce the student to the classical psychological experiments and to train him in the methods of experimental design and research. Experiments on the sensory processes, perception, learning, memory, thought processes, and emotions. Prerequisites: Psychology 102 and 211 or permission of chairman. Three hours lecture, two hours laboratory.

**Psychology 320.**

EXPERIMENTAL PSYCHOLOGY II

4 credits

Lectures and discussions on modern experimental psychology. For laboratory work, the student plans, designs, and performs an original research experiment. Prerequisite: Psychology 319. Three hours lecture, two hours laboratory.

99

**Psychology 325. (322)**

READINGS IN PSYCHOLOGY

3 credits

Readings consist of basic books and periodicals having relevance for the broad field of psychology; assignments discussed in seminar fashion at one two-hour meeting weekly. Prerequisites: Psychology 102 and junior standing, or permission of chairman.

**Psychology 330-331.**

SPECIAL TOPICS IN PSYCHOLOGY

3-6 credits

Content will vary each year to present the psychological underpinnings of issues on the contemporary American scene. Such topics as the psychology of drug use, of prejudice, of mob action, of attitude change, and of religion will be treated in various semesters. Prerequisite varies with topic.

**Psychology 350. (Adm. 323)**

EFFECTIVE COMMUNICATION

3 credits

A deepening understanding of, and personal growth experiences in, the art of interpersonal communication. Attention given to listening and empathy, discussion and decision-making, confrontation and conflict management, attitudinal systems and Gestalt, verbal and non-verbal communication, creative goal-setting, individual and social growth.

**Psychology 360. (417)**

INDUSTRIAL AND BUSINESS PSYCHOLOGY

3 credits

A study of those psychological principles, methods, and techniques which are especially relevant to an understanding of human relations and efficiency in business and industry.

<b>Psychology 364. (422)</b>	SOCIAL PSYCHOLOGY	3 credits
A study of the facts and theories dealing with the phenomena of social behavior. Focuses on individual behavior as it affects and is affected by the behavior of others.		
<b>Psychology 406. (455)</b>	COUNSELING THEORIES AND PRINCIPLES	3 credits
Theories and principles of the counseling process. The dynamics of human change. The objectives, work, and continuing problems of counseling. Prerequisite: Psychology 101 or equivalent.		
<b>Psychology 407. (453)</b>	THEORIES OF LEARNING	3 credits
An analysis of the principal theories of learning in the light of recent experiments in animal and human learning. Prerequisite: Psychology 102.		
<b>Psychology 408. (314)</b>	THEORIES OF PERSONALITY	3 credits
A systematic study of the principal theories of personality with particular emphasis on recent trends, research methodology, and personality measurement. Prerequisite: Psychology 101.		
<b>Psychology 450.</b>	PHYSIOLOGICAL PSYCHOLOGY	3 credits
100	An introduction to the neurological and endocrinological bases of behavior. Consideration of sensory and motor processes, motivation and emotion, learning and memory. Prerequisite: Psychology 102. Two hours lecture, two hours laboratory.	
<b>Psychology 471. (423)</b>	SEMINAR I	3 credits
Readings, discussion, and analysis of contemporary psychological theories and research; individual student research and presentation of paper. Prerequisite: junior or senior standing as psychology major.		
<b>Psychology 472. (424)</b>	SEMINAR II	3 credits
A continuation of Psychology 471 with primary focus on topics judged by students and faculty to be particularly relevant for present day psychology majors. Prerequisite: junior or senior standing as psychology major.		
<b>Psychology 480-481. (425-426)</b>	PSYCHOLOGICAL RESEARCH OR PRACTICUM	3-6 credits
Offers the student the option of conducting a research project under the direction of a faculty member or of obtaining practical experience serving in an institutional setting under professional supervision. Program planned in advance. Prerequisite: open to senior psychology majors only. One or two terms.		

## **RELIGION**

WILLIAM J. MARTIN, F.S.C., S.T.D., Chairman

Associate Professors: Davis, Martin, Schepers

Assistant Professors: Biechler, Efroyimson, Halligan, Keenan, Kelly,

Van Everbroeck, White

Instructor: McKenna

Lecturers: Frank, Gore, Hansbury

### **Required for Major in Religion: 14 courses**

- 2 courses from General Education offerings; 12 additional religion electives, including at least one from each of the 4 study areas (biblical, theological, historical, and religious) and Religion 470.

## **GENERAL EDUCATION**

### **Religion 161. (102)**

THE BIBLE AS RELIGIOUS LITERATURE

3 credits

A study of the Bible focusing on the religious and human experience of the men who produced it. A reading and analysis of the Jewish and Christian biblical literature. Literary genres of biblical literature. The course will also investigate the impact of other Near Eastern cultures and literatures on the formation of the Bible. Finally the Bible will be viewed in the broader sense of history along with its impact on men and the great religions of the world. Both terms.

### **Religion 162. (103)**

DIMENSIONS OF FAITH IN WESTERN

THOUGHT

3 credits

An historical study of the development of Christian faith as commitment, response, and communal relationship through a reading of selected passages of Scripture, and subsequent Christian writers such as the early Church Fathers (Origen, Augustine), medieval and reformation thinkers (Aquinas, Luther, Calvin), and modern authors (Kierkegaard, Schleiermacher, Newman, Rahner). Both terms.

### **Religion 163. (104)**

HUMAN RELIGIOUS EXPERIENCE

(The Phenomenology of Religion)

3 credits

A study of the diverse patterns of thought and behavior that express man's religious experience. The topics for study will be selected across the great religious traditions, from tribal and archaic cultures to the present. This course furthermore will identify the elements these great religious traditions have in common, as well as those elements that set them off from one another. Both terms.

### **Religion 164. (105)**

RELIGION AND THE CONTEMPORARY

SEARCH FOR SELF

3 credits

What is behind the identity crisis of today? Does man need God in order to be man? Is there any human meaning apart from other men? How does man best relate to the world? These and similar questions will be examined from both the religious and secular point of view by placing in dialogue readings from fields such as: theology (Tillich, Cox, Heschel); existentialism (Sartre, Camus); psychology (Jung, Laing); literature (Eliot, Weisel, Ginsberg); and media (Dylan, Bergman). Both terms.

## **SECTION A: BIBLICAL STUDIES**

### **Religion 210. (117)**

OLD TESTAMENT THEMES

3 credits

A study of the origin and development of biblical traditions and theological themes: God, man, the meaning of life, the Exodus theme, prophecy, etc. Such ideas will be studied in both their Old Testament context as well as their relation to the New Testament.

### **Religion 211. (220)**

CONTEMPORARY NEW TESTAMENT ISSUES: STUDIES IN JESUS

3 credits

A critical assessment of the New Testament and related sources for the meaning of Jesus. Bultmann's demythologization of the Gospels; post-Bultmann developments in the New Quest for the historical Jesus. Special consideration will be given to those Gospel passages which are the object of current controversy: Infancy Narratives, Virgin Birth, Christ's miracles, the Resurrection and post-Resurrection appearances, the messianic consciousness and divinity of Jesus.

### **Religion 310. (421)**

THE SYNOPTIC GOSPELS

3 credits

How did the Gospels develop? How historically reliable are they? What value have they as sources for a study of the person of Jesus of Nazareth? What is Form Criticism? Source Criticism? The state of contemporary biblical scholarship. These points will be illustrated through a guided study in the synoptic Gospels: Matthew, Mark, Luke.

102

### **Religion 311. (412)**

THE NEW TESTAMENT WORLD OF JOHN AND PAUL

3 credits

A critical appraisal of the perennial significance of the major theological themes in John and Paul. Selected readings from the Fourth Gospel and Pauline Epistles will be analyzed and discussed. The Jewish, Hellenistic, and early Church influences in their composition will be examined in the context of biblical and non-biblical literature of the time.

## **SECTION B: THEOLOGICAL STUDIES**

### **Religion 220. (250)**

THE CHURCH OF CHRIST

3 credits

An inquiry into the life and structure of Christian community. The psychological and theological factors which bring men together to constitute "Church." The Church as eschatological community in relation to Christ. A study of those ideas most generally attributed to Church: unity and catholicity, organization, ministry, and mission.

### **Religion 221. (260)**

CONTEMPORARY CHRISTOLOGY

3 credits

A survey of the post-biblical developments concerning the person and mission of Jesus, with emphasis on the contemporary attempt to reinterpret Jesus as Man and God.

### **Religion 222. (270)**

SACRAMENTS AND WORSHIP

3 credits

A study of the nature, form, and function of sacred symbols in the collective experience of mankind, with special reference to the Judaeo-Christian tradition. An inquiry into the origin and development of the specifically Christian sacraments highlighting some of the problems of modern sacramental theology.

<b>Religion 223. (350)</b> CONTEMPORARY MORAL PROBLEMS	3 credits
A study of human actions with emphasis on their religious dimensions. The question of revealed moral commands in religious tradition. The experience of morality. Various Christian moral traditions. An in-depth study of some of the current moral issues: war, conscientious objection, civil disobedience, human sexuality, business and medical ethics, etc.	
<b>Religion 229. (380)</b> PROTESTANT THEOLOGY	3 credits
A critical examination of the origin and principles of Reformation theology as they have been worked out in the religious movement called "Protestantism." Special attention will be given to the important personages of the Reformation who have shaped the religious thinking of the West. Students will be introduced to such notable theologians as Barth, Brunner, Bultmann, Bonhoeffer, Niebuhr, Tillich, and Cox.	
<b>Religion 320-321. (431-432)</b> SURVEY OF CHRISTIAN THEOLOGY	3-6 credits
Fall term: Human existence, Revelation, Faith, Theology, Religion. Spring term: Creation, sin; the Holy Spirit and salvation; Christian eschatology; theology of prayer and worship.	
<b>Religion 420. (125)</b> INTRODUCTION TO THEOLOGY AND THEOLOGICAL METHOD	3 credits
A discussion of what theology is, and what its sources and methods are. Theology will be examined as an attempt to understand, clarify, develop, and interpret the Christian faith.	103
<b>SECTION C: HISTORICAL STUDIES</b>	
<b>Religion 230. (460)</b> AMERICAN RELIGIOUS THOUGHT	3 credits
A study of the major religious movements within the Roman Catholic Church and Protestant churches in the United States from the American Revolution to the present day. The course will investigate the theological implications for the churches of such movements as the American Revolution, the Great Awakening, the Abolitionist Movement, the Civil War, the Gospel of Wealth, the Great Depression, World War II, and the Atomic Age.	
<b>Religion 330. (411)</b> EARLY CHRISTIANITY: CRISIS AND PROCESS	3 credits
An in-depth exploration of the issues around which Christianity of the first four centuries took form: the struggle with the Roman Empire; the confrontation with Hellenistic philosophy and religion; Jewish Christianity, gnosticism, and the development of "orthodoxy." The effect of all this on the origin and shape of certain ideas and institutions such as Christology, church, papacy, interpretation of history, and sex.	
<b>Religion 331. (441)</b> RELIGIOUS DYNAMIC OF THE MIDDLE AGES AND RENAISSANCE	3 credits
A study of religion in the Middle Ages and Renaissance periods concentrating on such popular movements as the Cathars, Waldensians, Fraticelli, Lollards, and Beguines, as well as on such phenomena as millenarism, reformation, and conciliarism. Relation of these movements and phenomena to the evolution of art, the inquisition, papacy, universities, and monasteries. The religious and ethical implications of humanism and capitalism.	

**Religion 332. (126)**

NINETEENTH-CENTURY RELIGIOUS THOUGHT

3 credits

A critical examination of the great religious movements of the nineteenth century that have most contributed to the present religious situation. This course will focus on the encounter between Christian thought and nineteenth-century philosophy, history, and natural science. Special attention will be given to Newman and the Oxford Movement; Feuerbach and the post-Hegelian criticism; the religious thought of Marx and Engels; Strauss and history; Darwin and the challenge of science. The advent of liberalism in Protestant and Catholic circles.

**SECTION D: RELIGIOUS STUDIES****Religion 240.**

THE RELIGIONS OF INDIA

3 credits

A study of the origin, development, and structure of Hindu traditions. Vedic beginnings. Major reform movements. Sects and schools of interpretation. Yoga, bhakti, and mystical traditions. Recent developments.

**Religion 241.**

BUDDHISM AND THE RELIGIONS OF CHINA AND JAPAN

3 credits

A study and discussion of the rise of Buddhism and its subsequent division into Theravada and Mahayana Buddhism. Its Chinese and Japanese mutations (Pure Land and Zen). Confucianism, Taoism, Shinto. Modern phenomenon: Soka Gakkai and Maoism.

**Religion 242. (375)**

CONTEMPORARY JUDAISM

3 credits

A study of the historical origin, roots, and developments of Judaism as a religion, as well as a cultural, civil, and ethnic group. The course will evaluate Jewish social and educational values as well as religious problems and attitudes among Jews today.

**Religion 243. (433)**

RELIGIOUS ATTITUDES IN MODERN LITERATURE

3 credits

An examination of various cross-currents between religion and literature as found in representative modern texts. Man's search for ultimate meaning will be studied in such writers as Hesse, Kafka, Eliot, Beckett, and Ginsberg. An analysis of the various forms that religious experience takes (theological vs. the literary); the relation between religious questions found in modern literature and those found in the traditional scriptures (the presence or absence of God, the moral dilemma, the freedom of man). Identical with English 203.

**Religion 340.**

ORIENTAL RELIGIOUS CLASSICS

3 credits

An analysis and comparison of selected Great Books of the religious traditions of India and China. Prerequisites: Religion 240, 241, or permission of chairman.

**SECTION E: SPECIAL STUDIES****Religion 350. (450)**

SPECIAL TOPICS IN RELIGION

3 credits

Content of the course will be announced whenever it is offered. May be repeated for credit.

**Religion 470. (485)**

SEMINAR

3 credits

An introduction to scholarly research through the selection, writing, and small-group presentation of formal papers in a specific area determined by the instructor. Required of all theology majors open to others approved by chairman. Prerequisite: 15 hours of religion.

## SOCIOLOGY

**RICHARD C. LEONARD, Ph.D., Chairman**

Professor: J. F. Connors

Associate Professors: Coffee, Leonard

Assistant Professors: Bird, J. T. Connors, Hornum, Ross, Stevenson, Stull

Instructors: Blankertz, Moberg, Stavish

**Required for Major in Sociology: 9 courses**

- General Sociology: Sociology 102, 301-302, 401-402, 414 and 3 additional sociology electives
- Concentration in Social Work: Sociology 102, 211, 212, 301-302, 411, 412, 413, 414.  
Also recommended: Psychology 203, 206, 364, 406
- Concentration in Criminal Justice: Sociology 102, 221, 301-302, 371-372, 414, 471-472.  
Also recommended: Psychology 206, 315, 364, 406

**SECTION A: SURVEY COURSES**

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**Sociology 101.**

SOCIOLOGICAL PERSPECTIVES

3 credits

Introduction to the study of American society with a social problems focus. Attention to the student's own lifestyle as well as to specially designed field observations.

**Sociology 102.**

SOCIOLOGICAL PRINCIPLES

3 credits

Emphasis will be on sociological concepts and a beginning introduction to sociological theory. Recommended for students intending to major in sociology.

**Sociology 203. (420)**

INDUSTRIAL SOCIOLOGY

3 credits

Analysis of the social organization of work in modern societies, the concept of career, the development of professionalization, the nature of work-satisfaction and the impact of bureaucratization. Occupational subcultures such as law, medicine, public service, the military, and education considered.

**Sociology 211. (304)**

MARRIAGE AND THE FAMILY

3 credits

Mate selection, marriage, and child-rearing in a changing world.

**Sociology 212. (306)**

MINORITY GROUPS

3 credits

Examination of the racial and ethnic groups that compose American society. Emphasis on the processes involved in social change in intergroup relations.

**Sociology 221. (416)**

CRIMINOLOGY

3 credits

A study of the sociological and social psychological foundations of crime and delin-

quency and the social processes affecting the criminal justice system. Topics include: examinations of the criminal law, law enforcement, judicial administrations, corrections, and theories of crime causation.

**Sociology 303. (418)**

CULTURAL ANTHROPOLOGY

3 credits

A cross-cultural study of the influence of culture in explaining human behavior in primitive and modern societies.

**SECTION B: SPECIALIZED COURSES**

**Sociology 107. (308)**

THE CITY AND SOCIAL CHANGE

3 credits

A study of the rate and significance of urbanization in the United States and the world, with particular attention to the housing, planning, and redevelopment movements.

**Sociology 108. (309)**

POPULATION

3 credits

Trends and differentials in fertility, mortality, migration and urbanization, and national increase as these relate to levels of living in the world.

**Sociology 205. (422)**

SOCIAL PSYCHOLOGY

3 credits

The study of the influence of society and culture, as mediated by the social group, on the social, cultural, and personal behavior of the individual.

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**Sociology 301-302. (313-314)**

STATISTICS AND RESEARCH METHODS

3-6 credits

An introduction to statistical and research methods in sociology with an opportunity to apply these in a research project.

**Sociology/Economics 320.**

INTRODUCTION TO URBAN STUDIES

3 credits

An introduction to the varied disciplinary approaches used by social scientists in their investigation of the urban scene. Study and discussions of the literature on urban affairs. Independent research projects on surrounding neighborhood area. Co-taught by sociology and economics department. Prerequisites: 6 hours of social science. Identical with Economics 320.

**Sociology/Economics 321.**

SEMINAR IN URBAN STUDIES

3 credits

Intensive analysis of the city as a system of interrelated variables and institutional sub-systems. Stresses current policies and practices in the social and economic options available to various urban interest groups. Independent research projects on the Philadelphia region. Co-taught by economics and sociology departments. Prerequisites: 6 hours of social science. Identical with Economics 321.

**Sociology 330. (421)**

THE EDUCATION OF URBAN POPULATIONS

3 credits

Identical with Education 330 and Political Science 330. See p. 53.

**Sociology 371-372. (427-428)**

SEMINAR IN CRIMINAL JUSTICE ADMINISTRATION

3-6 credits

The theory and practice of law enforcement, judicial and correctional agencies are critically examined through class discussion, individual and group projects, visits to criminal justice agencies and guest experts' participation.

**Sociology 380.**

## SPECIAL TOPICS IN SOCIOLOGY

3-6 credits

Designed to meet current developments in sociological specialties. Topics will range from medical sociology, social change, social stratification, mental health and social work, penology, to the sociology of conflict.

**Sociology 401-402. (407-408)**

## RESEARCH SEMINAR

4-8 credits

Original research in one area of social reality and a study of existing theory and knowledge about this area.

**Sociology 403. (404)**

## THE SOCIOLOGY OF RELIGION

3 credits

A study of religion as a basic social institution and of its relationships with the political, economic, and stratification systems of society and with social change.

**Sociology 411. (315)**

## PRINCIPLES OF SOCIAL CASEWORK AND COMMUNITY ORGANIZATION

3 credits

A survey of the general areas of social work practice. This course presents an overview of community organization, and emphasizes the relation of institutional factors to a client's ability to realize his own goals. Emphasis given to the strategies advocated for social change.

**Sociology 412-413. (414)**

## INTRODUCTION TO SOCIAL WORK

4-8 credits

An introduction to the history of social work, and its methods and processes. Specific emphasis is placed on the contemporary social organizations that meet human needs in such matters as family relationship, physical and mental health, economic security, legal protection, and professional standards.

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**Sociology 414. (426)**

## SOCIOLOGICAL THEORY

3 credits

A survey of the development of social thought from August Comte to contemporary theorists. An attempt to see the evolution of social theory within the social context of the theorist's milieu.

**Sociology 471-472. (429-430)**

## FIELD SEMINAR IN CRIMINAL JUSTICE

4-8 credits

An interpretation of the criminal justice process through actual field placement in law enforcement, judicial and correctional agencies. Student is placed, on a one day per week basis, in the criminal justice agency most closely meeting his interest and receives individual supervision both by a field supervisor and the instructor. A research project and a field diary are required.

**Sociology 480.**

## INDEPENDENT STUDIES

3 credits

Intensive individual study of a selected sociological area under the supervision of a faculty member. Emphasis given to the reading of basic sociological literature in the selected area and the completion of a term project.

**SPEECH AND DRAMA**

(See English, page 53.)

Computer  
Art  
Problem Solving

ART

# **School of Business Administration**

The School of Business Administration offers a four-year undergraduate program for men and women leading to the Bachelor of Science degree. The current program represents several years of review of the educational needs of students entering the business world and graduate schools and the needs of the College's urban environment. Specific consideration has been given to the students' educational background and age, their experience, their expectations and goals, as well as the urban community—its structure, interests, and attitudes. The program prepares students for managerial responsibilities and provides an enduring base for personal development.

Course requirements and electives are structured to provide: (1) a solid foundation in the arts and sciences as background for professional study in business administration; (2) a business core consisting of study in the several areas of business administration and in analytical methods and techniques; and (3) an opportunity to concentrate in depth in a professional area as a basis for future career development. The general education studies provide the student with an understanding of himself, the humanistic and philosophic aspects of man, Christian thought, and the social, mathematical, and computing sciences relevant to business practice; the business core and professional studies provide a broad understanding of business administration and prepare students for a career or for graduate education.

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## **DEGREE PROGRAM**

The program leading to a Bachelor of Science degree in Business Administration consists of 120 credits, about half of which may be taken in business and economics. The general education and professional studies are pursued simultaneously by the student throughout the four years of undergraduate study. In the junior year, a student begins to specialize in a professional option or "major." Professional options are available in accounting, finance, industrial management, industrial relations, marketing, and quantitative analysis. Special options may be planned to meet individual needs. A cooperative program with St. Joseph's College provides students with the opportunity to become certified to teach business courses at the secondary level.

## **PREPARATION FOR TEACHING**

Students who wish to teach courses in business administration at the secondary level may receive state certification by participating in a cooperative program involving La Salle and St. Joseph's Colleges. Under this program, the student completes his General Education and Distribution requirements at La Salle, along with course work in either accounting or marketing. Education courses are pursued both at La Salle and St. Joseph's. The student receives his degree from La Salle and his certification from St. Joseph's. Arrangements for the program may be completed in consultation with the dean.

## CURRICULUM

The curriculum for business administration students has five parts:

1. General Education—7 courses (21 credits)
2. Distribution Requirement—9 courses (27 credits)
3. Business Core—10 courses (30 credits)
4. Professional Studies—4 courses (12 credits)<sup>1</sup>
5. Electives—10 courses (30 credits)<sup>2</sup>

(The school recommends that 12 of these credits be in business or economics courses and 18 credits in arts and science electives.)

<sup>1</sup>The Accounting Option requires 8 courses (24 credits) beyond the Business Core.

<sup>2</sup>The Accounting Option has 6 courses (18 credits) as electives. Two courses (6 credits) in business and economics and 4 courses (12 credits) in arts and sciences are recommended as electives.

### General Education

These studies are aimed at providing an enduring base for personal development and an awareness of moral values and social responsibility. Normally these courses will be completed by the end of the sophomore year. They include:

English Composition .....	1 semester
Literature .....	2 semesters
Philosophy .....	2 semesters
Religion .....	2 semesters

(May be waived if writing competence is established.) (English or foreign, in original or translations.)



## **Distribution Requirement**

This requirement assures a measure of balance in the liberal arts background outside of the major field while at the same time permitting an element of flexibility so that each student may tailor his program to some degree to fit his interests and needs. The Distribution Requirement is normally completed by the end of junior year. N.B. Certain courses within Areas II and IV must be selected by all students in the School of Business Administration.

Business administration students may choose two courses from two of the three areas: Area I, III, or V.

Area I	Area III	Area V
English	Religion	Biology
History	Philosophy	Chemistry
	Fine Arts (Music or Art)	Earth Science
<b>Area II</b>		Physics
Foreign Languages		
Mathematics <sup>1</sup>	<b>Area IV</b>	
	Economics <sup>2</sup>	
	Political Science	
	Sociology	
	Psychology	

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## **Business Core**

Course work consists of study in the several areas of business practice and in analytical methods and techniques. This foundation is intended to develop a broad understanding of business problems. The following courses constitute the core:

Functional Activities: Accounting 101, 102; Finance 201, 202; Management 202; Marketing 201; Law 201.

Analytical Techniques: Quantitative Analysis 213; Economics 302; Management 201.

## **Professional Studies**

These courses provide an intensive learning experience in one facet of business practice and serve as a basis for future career development. Professional options are offered in:

Accounting	Marketing	
Finance	Personnel and Labor Relations	
Management	Quantitative Analysis	Special Options

<sup>1</sup>Business students must take Mathematics 101, 102 or two advanced courses. They must also take Computer Science 151, or equivalent.

<sup>2</sup>Economics 101-102 is required of business students.

The professional option consists of 12 credits in a functional area beyond the courses required in the Business core. An exception to the 12 credit requirement is the Accounting Option, for which a set of course requirements has been established as necessary preparation for the Certified Public Accounting examination in Pennsylvania.

You may choose your professional option when you apply for admission or at some time during your first two years of college. If you wish to choose a Special Option, you must obtain the dean's approval of your program.

### Free Electives

A student may choose to concentrate his free electives in a particular field or may use these electives to diversify his background or broaden his interests. To achieve a balance between liberal arts and professional studies, the school recommends that a student take no more than 12 credits as electives in business administration or economics.



## MODEL ROSTER FOR PROFESSIONAL OPTION IN ACCOUNTING

### FRESHMAN YEAR

Fall	Spring
Acc. 101	Acc. 102
Eco. 101	Eco. 102
Math. 101	Math. 102
Eng. 101	Gen. Ed. Lit.
Gen. Ed. Rel.	Gen. Ed. Phil.

### JUNIOR YEAR

Fall	Spring
Acc. 303	Acc. 304
Law 201	Mgt. 202
Fin. 202	Mktg. 201
Eco. 302	C. Sc. 151
Dist. Req.—Areas I, III, or V	Dist. Req.—Areas I, III, or V

### SOPHOMORE YEAR

Acc. 201	Acc. 202
Fin. 201	Quan. Anal. 213
Mgt. 201	Gen. Ed. Lit.
Dist. Req.—Areas I, III, or V	Dist. Req.—Areas I, III, or V
Gen. Ed. Rel.	Gen. Ed. Phil.

### SENIOR YEAR

Acc. 405	Acc. 406
Acc. 407	Acc. 470
Bus. & Eco. Elect.	Bus. & Eco. Elect.
Arts & Sci. Elect.	Arts & Sci. Elect.
Arts & Sci. Elect.	Arts & Sci. Elect.

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## MODEL ROSTER FOR PROFESSIONAL OPTIONS IN FINANCE, PERSONNEL AND LABOR RELATIONS, MANAGEMENT, MARKETING, AND QUANTITATIVE ANALYSIS

### FRESHMAN YEAR

Fall	Spring
Acc. 101	Acc. 102
Eco. 101	Eco. 102
Math. 101	Math 102
Eng. 101	Gen. Ed. Lit.
Gen. Ed. Phil.	Gen. Ed. Rel.

### JUNIOR YEAR

Fall	Spring
Law 201 or Mktg. 201	Mgt. 202 or Fin. 202
Major Course	Major Course
Eco. 302	C. Sc. 151
Dist. Req.—Areas I, III, or V	Dist. Req.—Areas I, III, or V
Arts & Sci. Elect.	Arts & Sci. Elect.

### SOPHOMORE YEAR

Fin. 201	Mgt. 201
Quan. Anal. 213	Gen. Ed. Lit.
Gen. Ed. Phil.	Gen. Ed. Rel.
Dist. Req.—Areas I, III, or V	Dist. Req.—Areas I, III, or V
Law 201 or Mktg. 201	Mgt. 202 or Fin. 202

### SENIOR YEAR

Major Course	Major Course
Bus. & Eco. Elect.	Bus. & Eco. Elect.
Bus. & Eco. Elect.	Bus. & Eco. Elect.
Arts & Sci. Elect.	Arts & Sci. Elect.
Arts & Sci. Elect.	Arts & Sci. Elect.



## ACCOUNTING

JOSEPH MARKMANN, C.P.A., Chairman

Associate Professors: DeAngelis, Guerin, Kaiser, Markmann, Reardon, Sweeney

Assistant Professor: Hanratty

### Required for Professional Option in Accounting: 8 courses

- Accounting 201, 202, 303, 304, 405, 406, 407, 470

#### Accounting 101.

PRINCIPLES OF ACCOUNTING

3 credits

Training in the fundamental principles of recording business transactions, including a study of the presentation and interpretation of the financial data of a single proprietorship, partnership, and corporation. Fall term.

#### Accounting 102.

MANAGERIAL ACCOUNTING

3 credits

The relationship between understanding accounting procedures and using accounting data effectively; the interrelationships between financial statements and the methods of accumulating data for these statements and how the particular accounting methods used influence business decisions. Problems include depreciation methods, inventory valuation, alternative methods of obtaining capital and the measurement and control of costs within the corporate entity. Prerequisite: Accounting 101. Spring term.

<b>Accounting 201.</b>		
ACCOUNTING THEORY I		3 credits
Theories and problems involved in proper recording of transactions and preparation of financial statements. Review of accounting cycle, discussion of financial statements, analysis of theory as applied to transactions affecting current assets, current liabilities, long-term investments, and their presentation on the balance sheet. Prerequisites: Accounting 102 and sophomore standing. Fall term.		
<b>Accounting 202.</b>		
ACCOUNTING THEORY II		3 credits
Detailed presentation of theory as applied to plant and equipment, intangible assets, long-term debt, capital stock and surplus; correction of errors of prior periods; analysis of financial statements; statement of application of funds. Prerequisite: Accounting 201. Spring term.		
<b>Accounting 303.</b>		
COST ACCOUNTING		3 credits
Basic principles applied to job cost and process cost systems. Topics include: purchasing and issuing of materials and maintenance of perpetual inventory records, control of labor, methods of distributing factory overhead expenses, evaluation of problems involved in shrinkage and idle time, forms used in job and process cost systems, and discussion of necessity and place of cost accounting in modern enterprises. Prerequisite: Accounting 102. Should be taken in junior year by accounting majors. Fall term.		
<b>Accounting 304.</b>		
AUDITING		3 credits
A practical presentation of modern audit practices, emphasizing the principles and objectives of an audit. Analysis of the audit basis, the best standards, objective reporting, the adoption of improved accounting standards, business controls, professional ethics and legal liability. Prerequisite: Accounting 202. Spring term.		115
<b>Accounting 310.</b>		
FINANCIAL STATEMENT ANALYSIS		3 credits
Comparative analyses by percentages, ratios, trends, graphic reports, and projections applicable to the balance sheet and income statement. Structure and meaning of accounts and peripheral statements such as application of funds and breakeven analysis. Prerequisites: Accounting 102 and junior standing. Both terms.		
<b>Accounting 312. (309)</b>		
COST ACCOUNTING		3 credits
Similar to Accounting 303, but intended for students not majoring in accounting. Prerequisite: Accounting 102. Both terms.		
<b>Accounting 313. (411)</b>		
ADVANCED COST ACCOUNTING		3 credits
Economic, industrial and managerial aspects of cost accounting with emphasis on flexible budget as basis for cost control; analysis of variance and graphic charts. Study of estimated costs, standard costs, and distribution costs. Prerequisite: Accounting 303. Spring term.		
<b>Accounting 360.</b>		
COOPERATIVE EDUCATION		3 credits
Consult with department chairman. Prerequisite: Accounting 202. Spring term.		

**Accounting 405.**

ADVANCED ACCOUNTING THEORY AND PROBLEMS I

3 credits

A study of home office and branch accounting, mergers, acquisitions and preparation of consolidated financial statements, foreign operations. Prerequisite: senior standing. Fall term.

**Accounting 406.**

ADVANCED ACCOUNTING THEORY AND PROBLEMS II

3 credits

A study of special topics in accounting theory including partnerships, installment sales, estate and trust, and insolvency in connection with realization and liquidation. Prerequisites: Accounting 405 and senior standing. Spring term.

**Accounting 407.**

INCOME TAXES

3 credits

Training in application of basic principles to the solution of tax problems; individual income tax returns, inclusions, exclusions, and capital gain or loss applicable thereto; pay-as-you-go tax collection system; partnership, corporation, and fiduciary income tax returns; social security, estate, and gift taxes. Both terms.

**Accounting 470. (512)**

ACCOUNTING SEMINAR

3 credits

Research in selected topics of accounting theory. Prerequisite: senior standing. Both terms.



## BUSINESS LAW

(See Law, page 120.)

## FINANCE

MELVIN F. WOODS, M.A., Chairman  
Associate Professor: Woods  
Assistant Professor: Buch  
Instructors: McCaffrey, Monahan

### Required for Professional Option in Finance: 4 courses

- 4 courses from among the following: Finance 301, 302, 304, 401, 403, 404, 470

#### **Finance 201. (230)**

PRINCIPLES OF FINANCE

3 credits

An investigation of the nature and concepts of money and credit; the financial structure of the United States and the sources of credit; effects of Federal Reserve and U.S. Treasury actions on financial institutions. Both terms.

#### **Finance 202. (231)**

CORPORATION FINANCE

3 credits

A survey of the field of corporation finance, analyzing the corporation from its promotion through the determination of its capitalization and capital structure, and decisions as to the alternate sources of funds. Both terms.

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#### **Finance 301. (332)**

INTRODUCTION TO INVESTMENTS AND SECURITIES MARKETS

3 credits

A study of the stock market, its trading operations and regulations. Development of investment policies for personal programs as compared to institutional uses of funds. Prerequisite: Finance 201. Both terms.

#### **Finance 302. (333)**

INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT

3 credits

Development of fundamental techniques of security analysis in order to determine investment characteristics and evaluate existing holdings of securities. Prerequisite: Finance 301. Spring term.

#### **Finance 304. (434)**

ADVANCED CORPORATION FINANCE

3 credits

An analysis of the financial theory of the firm, including financial planning and control, budgeting, measurement of profitability and risk and the cost of capital. Prerequisite: Finance 202. Both terms.

#### **Finance 401. (435)**

FINANCIAL ADMINISTRATION

3 credits

Analysis of policies, practices, and operating results of financial institutions, especially commercial banks. Comparative study of banking systems and current trends in the banking field. Prerequisite: Finance 201. Fall term.

#### **Finance 403. (466)**

INTERNATIONAL COMMERCE

3 credits

Identical with Marketing 403.

**Finance 404.**  
PUBLIC FINANCE 3 credits

An analysis of the revenue and expenditure activities of government with particular emphasis on the rationale of this government activity, the method of financing, and the effects of fiscal policy on allocation, distribution, efficiency, equity, and stability in the economy. Same as Economics 404. Prerequisites: Economics 101, 102. Spring term.

**Finance 470. (539)**  
SEMINAR IN FINANCE 3 credits

Selected topics in the area of finance studied in depth under the direction of staff. Prerequisite: senior standing. Spring term.

## INFORMATION SYSTEMS

Lecturer: Fleming

Information Systems courses may be taken as electives. The management department coordinates these courses.

**Information Systems 301.**  
INFORMATION SYSTEMS DESIGN 3 credits

Organizational levels of decision making, long range planning and routine control. Sources of data, validity, reliability, accuracy considerations of data. Collection and processing difficulties, data transformation and introduced errors. Considerations of costs of processing, time of processing, hardware and software capacities. Value of information, generation of alternative information system designs, choice among the alternatives (selection and evaluation).

**Information Systems 401.**  
SYSTEMS DEVELOPMENT PROJECT 3 credits

Developing one complete routine information system for a hypothetical or real organization; going through the use of available modules, figuring out flexibility of data base and the information system for one time decisions. Development of alternate designs and choice. Exposure to real world data problems. Prerequisite: Information Systems 301.

## INSURANCE

Lecturer: Christie

Insurance courses may be taken as electives. The department of finance coordinates the courses.

**Insurance 301. (Adm. 324)**  
INSURANCE PRINCIPLES 3 credits

A survey of the underlying principles, practices, and legal aspects of life, fire, marine, fidelity and corporate surety, employer's liability, title, and credit insurance. Prerequisite: junior standing. Fall term.

**Insurance 302. (Adm. 325)**  
LIFE INSURANCE 3 credits

Analysis of life insurance contracts; fundamental legal concept; rate making; construction of mortality tables and reserves; insured pension funds; tax and estate planning. Prerequisite: junior standing. Spring term.



## LAW

Associate Professor: Domineske  
Lecturers: Binns, Gembala, Trainor, M. Troxell

Law courses may be taken as electives. Law 201 is required of all business administration students. The department of finance coordinates the courses.

**Law 201. (Adm. 290)**

LAW OF CONTRACTS

3 credits

Introduces the students to the more common rules and principles governing business transactions; the rights and duties of individuals resulting from contractual and quasi-contractual obligations. Both terms.

**Law 202. (Adm. 395)**

LEGAL ENVIRONMENT OF BUSINESS

3 credits

A study of the politico-legal framework within which business operates. The nature, formation, and application of law to business; the historical development and present constraints upon decision-making; the interface of business and the whole of its legal settings. Legal procedure, judicial, legislative, and administrative law considered in perspective. Both terms.

**Law 301. (Adm. 391)**

LAW OF AGENCY, PARTNERSHIPS, AND CORPORATIONS

3 credits

Common and statute laws relating to the creation, operation, and termination of agencies, partnerships, and corporations. Emphasis on the Common Law of Agency, the Uniform Partnership Act, and the Business Corporation Law of Pennsylvania. Prerequisite: Law 201. Fall term.

**Law 302. (Adm. 392)**

LAW OF SALES AND SALES FINANCING

3 credits

Common and statute laws relating to the sale, purchase, transfer, and bailment of personal property. Emphasis on the Uniform Commercial Code relative to sales, sales financing, and secured transactions. Includes the legal relationship of bailor and bailee, shippers and common carriers. Prerequisite: Law 201. Spring term.

**Law 401. (Adm. 393)**

LAW OF REAL ESTATE

3 credits

Common and statute law of court process which the real estate salesman and broker encounter daily, including the legal principles applicable to the listing contract, the agreement of sale, mortgages, deeds, leases, adverse possession, easements, licenses, proving and recording title. Prerequisite: Law 201. Both terms.

**Law 402. (Adm. 394)**

LAW OF NEGOTIABLE INSTRUMENTS

3 credits

Application of the common law of the Uniform Commercial Code to checks, promissory notes, and bills of exchange. The use of commercial paper in security transactions and in the creation of credit. The laws of principal and surety, and insurer and insured as related to the use of commercial paper. Prerequisite: Law 201. Both terms.

## **MANAGEMENT**

**PRAFULLA N. JOGLEKAR, M.B.A., Chairman**  
Professor: Goldner  
Associate Professor: MacLeod  
Instructor: Joglekar, Scandone

### **Required for Professional Option in Management: 4 courses**

Requirements for each of the several available concentrations are listed below. Students whose goals are not met by one of these concentrations may design an individualized program in consultation with the chairman. Some quantitative analysis courses or information systems courses may be substituted for management courses with the permission of the chairman.

#### **Concentrations:**

- Operations Management: Management 304, 470; either Quantitative Analysis 302 or Information Systems 301; one additional management course.
- Organizational Behavior: Management 350, 307. One course each from the following two groups:

Management 306	Psychology 306
Management 303	Psychology 206
Management 401	Psychology 364

Relations 302

- Management Information Systems: Information Systems 301, 401; Quantitative Analysis 301; Accounting 312; Computer Science 152, 356, 355.
- Management of Public Systems: Information Systems 301; Management 305; Quantitative Analysis 301, 214; Accounting 312. Two additional courses in arts and sciences from among the following: Economics 404, Computer Science 356, Political Science 205, Economics/Sociology 320 and 321, Sociology 203, Sociology 107, Psychology 364.

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#### **Management 201. (241)**

ORGANIZATION AND MANAGEMENT OF HUMAN RESOURCES 3 credits

Interpersonal and intergroup perception, communication, individual motives, organizational structure, leadership and management styles and their influences on human behavior, considerations of costs, efficiency morale, effectiveness, traditional and modern organization theories, centralization vs. decentralization. Experiential approach supplemented with cases and readings. Both terms.

#### **Management 202. (240)**

INTRODUCTION TO OPERATIONS MANAGEMENT 3 credits

Plant layout, plant location, work methods, inventory control, scheduling, productivity measurement, incentive systems, interrelationships with other departments. Problems from various service and manufacturing industries, including quantitative appreciation of techniques like EOQ, expected values. Prerequisite: Finance 202. Both terms.

#### **Management 303. (445)**

CREATIVE THINKING AND DECISION MAKING 3 credits

Principles and techniques of how to think creatively; creative exercises. Complex cases for realistic decision-making analyzed and evaluated in writing. Comprehensive reports required. Prerequisite: senior standing. Spring term.

<b>Management 304. (342)</b> PRODUCTION PLANNING AND CONTROL	3 credits
Inventory control systems, PERT/TIME, PERT/COST, design of production control system, product mix problems, transportation problems and scheduling, forecasting and planning, automation and related problems. Applications to manufacturing industries. Prerequisite: Management 202. Fall term.	
<b>Management 305.</b> PLANNING AND CONTROL IN SERVICE INDUSTRIES	3 credits
Inventory control systems, PERT/TIME, PERT/COST, transportation problems and algorithms, scheduling, design of operations control system in service industries, forecasting and planning, and queuing theory. Applications to airline, railroad, trucking, industries, mail, telephone, city-highway planning, parking lot capacity, military logistics. Prerequisite: Management 202. Spring term.	
<b>Management 306.</b> ADMINISTRATIVE PLANNING AND CONTROL	3 credits
An advanced course concerned with general management concepts of planning and control in formal organizations. Particular emphasis on the comprehensive planning process. Prerequisite: Management 201. Spring term.	
<b>Management 307.</b> ORGANIZATIONAL ANALYSIS	3 credits
An advanced course concerned with the analysis and application of organization precepts to medium and large enterprises. Specific attention to the nature of organization theory, organization structure and process, leadership and morale, planned change, communication, control and evaluation, and decision making. Case method used. Prerequisite: Management 201. Fall term.	
<b>Management 350.</b> EFFECTIVE COMMUNICATION	3 credits
Identical with Psychology 350. See page 99.	
<b>Management 401. (546)</b> BUSINESS POLICY	3 credits
Intended as a capstone course in business administration. Integration of backgrounds acquired from accounting, finance, production, personnel, and marketing. Management problems and their implications; analysis and discussion of actual or simulated situations. Prerequisite: senior standing. Both terms.	
<b>Management 404.</b> SMALL BUSINESS ADMINISTRATION	3 credits
The actual art and practice of managing a small enterprise. Concepts and methods for decision making and being competitive. Actual cases with live situations and outside speakers from all areas—business, government, and organized labor—impinging on the small entrepreneur today. Prerequisites: Management 201, 202.	
<b>Management 470. (548)</b> SEMINAR IN MANAGEMENT	3 credits
Emphasis on modern, positive management concepts and practices. Class discussion and analysis of best-managed companies in the U.S. and overseas. Field trips to representative companies. Comprehensive reports required. Prerequisite: senior standing.	

## **MARKETING**

GEORGE R. SWOYER, L.H.D., Chairman  
Associate Professors: McCloskey, Reifsteck, Swoyer  
Instructors: Kennedy, Tague

### **Required for Professional Option in Marketing: 4 courses**

- Marketing 301, 302, 401, 402

#### **Marketing 201. (260)**

PRINCIPLES OF MARKETING

3 credits

The marketing system: competition, pricing, product line, distribution systems, promotion and planning. Both terms.

#### **Marketing 301. (361)**

PERSONAL SELLING

3 credits

The importance and practice of individual selling in the economy. Sales personality, the phases of a sales presentation, types of buyers and ethics in salesmanship. Prerequisite: Marketing 201. Fall term.

#### **Marketing 302. (362)**

MANAGEMENT OF PROMOTION (ADVERTISING)

3 credits

Theory and concepts employed by organizations in presenting their marketing messages through various communication media. Analysis of psychological, sociological, and economic variables affecting promotion decisions; strengths and limitations of marketing communications models. Prerequisite: Marketing 201. Spring term.

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#### **Marketing 303. (464)**

SALES ADMINISTRATION

3 credits

The activities of a sales administrator in directing and controlling a sales force; recruiting, selecting, training, compensating, motivating, and supervising salesmen; establishment of sales territories, quotas, and budgets. Prerequisites: Marketing 201 and junior standing. Spring term.

#### **Marketing 304. (465)**

INDUSTRIAL MARKETING

3 credits

Products, services, and administration related to industrial marketing of capital equipment, technology and commodity items as well as systems. Planning (research sources, analysis, projection) and administration (advertising, promotion, audiences, result measurement), and case study supplemented by conventional lecture and discussion. Prerequisites: Marketing 201 and junior standing. Fall term.

#### **Marketing 401. (463)**

MARKETING RESEARCH

3 credits

The use of scientific method in the solution of specific marketing problems and in the conduct of general market research studies: methods of marketing research, gathering data, tabulation and analysis, interpretation of results and report presentation. Prerequisites: Quantitative Analysis 213 and Marketing 201. Fall term.

#### **Marketing 402. (467)**

MARKETING MANAGEMENT

3 credits

Integrates all other marketing courses. Study of actual cases encourages development of management capacity and ability to make decisions based on factual analysis. Prerequisite: senior standing. Spring term.

**Marketing 403. (466)**  
INTERNATIONAL COMMERCE

3 credits

Factors conditioning the feasibility of direct private foreign investment, recent trends, and managerial problems in operating abroad; case studies of experiences of U.S. firms having foreign operations. Identical with Finance 403. Prerequisite: junior standing. Fall term.

## PERSONNEL AND LABOR RELATIONS

Professor: Halpin

The department of management coordinates the courses in this area.

**Required for Professional Option in Personnel and Labor Relations:** 4 courses

- Relations 301, 302, 401
- One of the following: Relations 303, 304, 471

**Relations 301. (343)**

LABOR PROBLEMS IN AMERICA

3 credits

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Sources of the union movement, its history, structure, and functions. Development of economic, political, and social power; problems involved in the use of this power; management rights and management reaction to unions. Identical with Management 301. Prerequisite: junior standing. Both terms.

**Relations 302. (344)**

PERSONNEL ADMINISTRATION

3 credits

Designed to train students to analyze existing programs, to adapt procedures and to develop original methods which will insure efficient personnel administration. Job analysis, selection, promotion and transfer, attitudes and morale, health and safety. Identical with Management 302. Prerequisite: junior standing. Both terms.

**Relations 303. (452)**

LABOR LEGISLATION

3 credits

Analysis of the important federal statutes affecting labor-management relations, including the Railway Labor Act of 1926, the Norris-LaGuardia Act, the Taft-Hartley Act, and the Landrum-Griffin Act. Prerequisite: Relations 301-302. Fall term.

**Relations 304. (453)**

WAGES AND LABOR MARKETS

3 credits

Analyzes the economic and institutional factors operating in the labor market, the processes of wage determination, the determinants of the level and structure of employment, and labor productivity. Impact of union, management, and governmental policies on wages, prices, and employment. Prerequisites: Relations 301-302. Fall term.

**Relations 401. (454)**

COLLECTIVE BARGAINING

3 credits

External and internal factors influencing the establishment of trade agreement and application of these provisions to day-to-day employer-employee problems through an analysis of authentic cases drawn from industry. Prerequisites: Relations 301-302 and senior standing. Spring term.

**Relations 471. (555)**

INTERNATIONAL LABOR-MANAGEMENT RELATIONS

3 credits

Structure and operation of labor and management institutions in selected countries. Emphasis on individual labor-management relationships, as well as on the social, economic, and political environment conditioning these relationships. Prerequisites: Relations 301 and senior standing. Spring term.

## **QUANTITATIVE ANALYSIS**

*Assistant Professor: J. Troxell*

The department of management coordinates the courses in this area.

**Required for Professional Option in Quantitative Analysis: 4 courses**

- Quantitative Analysis 301
- 3 of the following: Quantitative Analysis 214, 302, 303, 304, 470

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**Quantitative Analysis 213. (270)**

INTRODUCTION TO BUSINESS STATISTICS

3 credits

Theory, methods, and applications of descriptive and inferential statistical techniques for management problem solving. Prerequisite: sophomore standing. Both terms.

**Quantitative Analysis 214. (372)**

INTERMEDIATE STATISTICS

3 credits

Statistical inference; tests of significance; chi square, analysis of variance multiple and partial regression and correlation procedures. Other methods of analyzing data. Prerequisite: Quantitative Analysis 213. Spring term.

**Quantitative Analysis 301. (371)**

QUANTITATIVE TECHNIQUES IN DECISION MAKING

3 credits

Decision theory, value of information, statistical analysis of surveys, simulation, sensitivity analysis, dynamic programming and other methods of decision making. Prerequisite: Quantitative Analysis 213. Spring term.

**Quantitative Analysis 302. (373)**

STATISTICAL QUALITY ASSURANCE

3 credits

Control charts, fundamentals of acceptance sampling, reliability analysis and machine maintenance plans, queuing theory and application. Prerequisite: Quantitative Analysis 213. Fall term.

**Quantitative Analysis 303. (474)**

TOPICS IN APPLICATION OF STATISTICS

3 credits

Selected topics from nonparametric statistics and sample survey methods, Bayesian statistics, design of experiments, and other applications. Prerequisite: Quantitative Analysis 214. Spring term.

**Quantitative Analysis 304. (475)**

OPERATIONS RESEARCH

3 credits

Simulation, linear programming, game theory, scheduling algorithms. Use of computer research methods. Prerequisites: Quantitative Analysis 213, Management 202. Fall term.

**Quantitative Analysis 470. (576)**

TOPICS IN OPERATIONS RESEARCH

3 credits

Selected topics from simulation, dynamic programming and inventory models, applications of stochastic processes. Prerequisites: senior standing and consent of instructor.

**SPECIAL OPTIONS**

The Special Option consists of a suitable combination of four advanced courses in the School of Business Administration or in other departments of the College. The Special Option is intended for those who elect a broad approach to their undergraduate education, for students who may have a professional objective for which the available professional options do not offer appropriate preparation, and for students who intend to enter graduate school and may wish to prepare themselves for advanced education through a special program of courses. For a Special Option program, the proposed program is submitted to the Office of the Dean of the School of Business Administration for approval.



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Brother Daniel W. Burke, F.S.C., Ph.D., President of La Salle College

# Directory

## College Administration

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# **La Salle College Calendar**

## **1974-1975**

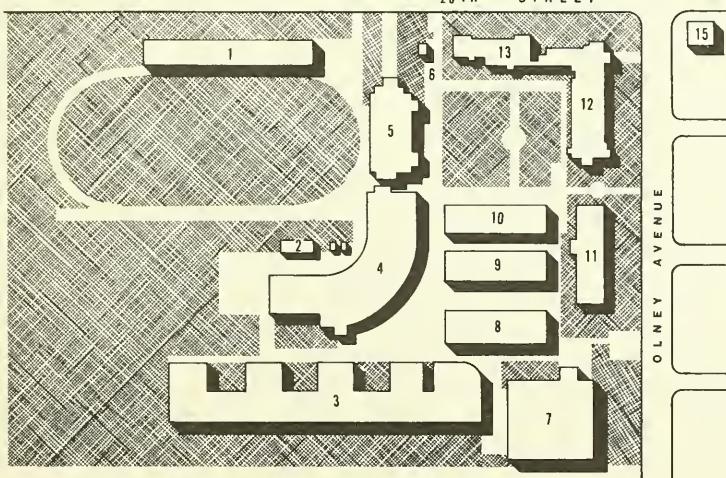
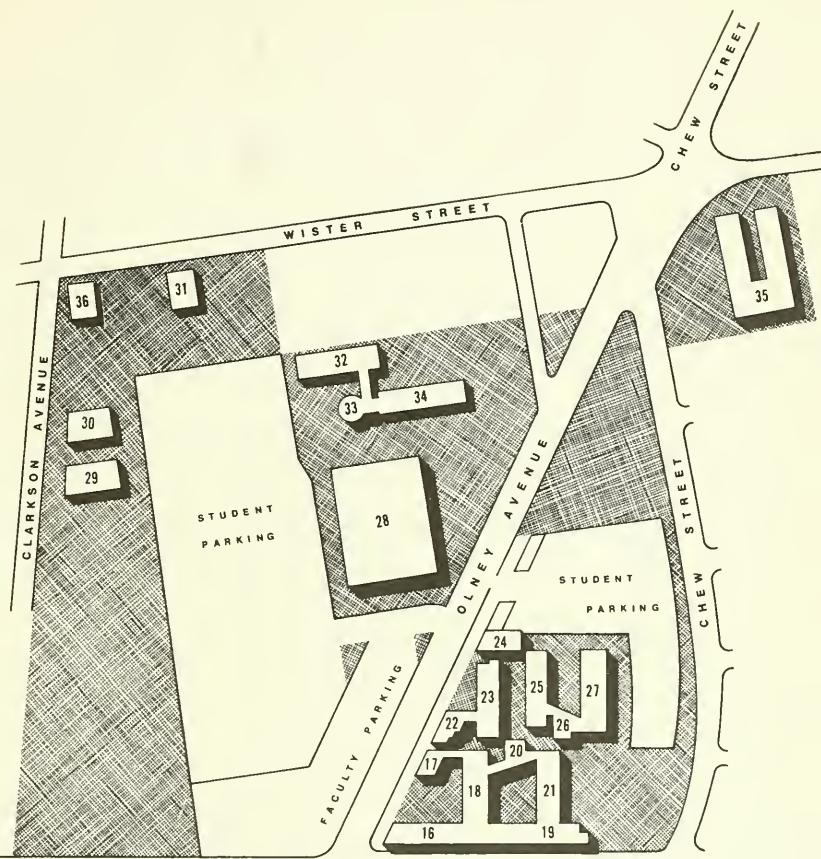
### **FALL SEMESTER**

August 27-29	On-campus registration—9:00 A.M. to Noon
September 2	Residence Halls open for freshmen and transfer students
September 3	Residence Halls open for other returning students
September 4	Beginning of classes. Opening Mass at 12:15
September 10	Last day for change of roster and late registration
October 27	Academic Convocation
November 1	Mid-semester holiday
November 4	Mid-semester grades due
November 6	Last day for withdrawal from courses
November 28-29	Thanksgiving holidays
December 13	Classes end for fall semester
December 16-20	Final Examinations
December 20	Christmas recess begins at 4:30 P.M.

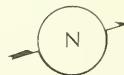
### **SPRING SEMESTER**

January 14-16	On campus registration—9:00 A.M. to Noon
January 20	Beginning of classes
January 24	Last day for change of roster or removal of I grades
March 13	Mid-semester grades due
March 24-31	Mid-semester and Easter holiday
April 1	Classes resume at 8:30 A.M.
May 2	Classes end for spring semester
May 3-8	Final examinations
May 20	Commencement

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CAMPUS  
MAP  
**La Salle**  
College



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